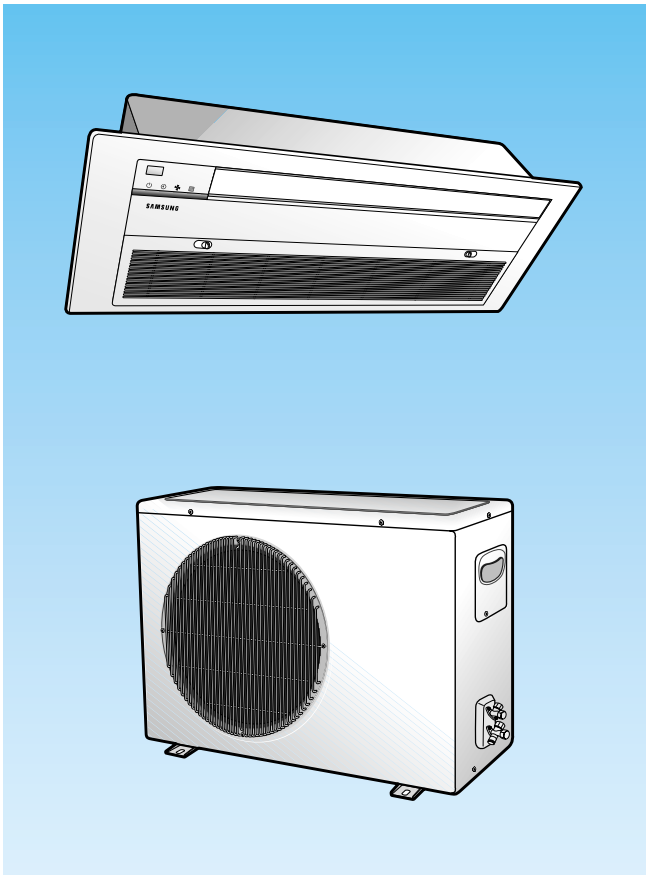
SAMSUNG

CASSETTE TYPE AIR CONDITIONER

INDOOR UNIT	OUTDOOR UNIT
KH026EAM	UH026EAM
KH035EAM	UH035EAM

SERVICE Manual

AIR CONDITIONER



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1. Product Specifications

1-1 Table

MODEL	INDOOR UNIT			KH026EAM	KH035EAM
	OUTDOOR UNIT			UH026EAM	UH035EAM
Capacity	Cooling		W	2,800	3,500
	Heating		W	2,900	3,800
Power supply				AC 220~240V, 50Hz	AC 220~240V, 50Hz
Power input	Cooling / Heating		W	3,500 / 1,200	3,800 / 1,250
Running current	Cooling / Heating		A	4.5 / 4.2	5.4 / 5.7
Indoor unit	Fan speed (at 0mmAq)	Hi	r.p.m.	1,070	1,210
		Med	r.p.m.	1,000	1,140
		Low	r.p.m.	930	1,070
	Air circulation	Hi	m^3/min	6.84	8.61
		Med	m^3/min	6.32	8.13
		Low	m^3/min	5.83	7.70
	Noise level (Sound pressure)	Hi	dB(A)	40	42
	Heat exchanger	Type		ø7.0 SLIT	ø7.0 SLIT
		Row x Stages x Fin pitch		2 x 14 x 1.5	2 x 14 x 1.5
	Fan	Type		Cross flow	Cross flow
		Motor output	W	28	28
	Dimensions	H	mm	180	180
		W	mm	970	970
		D	mm	390	390
	Weight	kg	Net / Gross	15 / 18	15 / 18
Outdoor unit	Fan speed	Hi	r.p.m.	750	780
		Low	r.p.m.	400	400
	Sound pressure level		dB(A)	52	54
	Fan	Type		Propeller	Propeller
		Motor output	W	36	36
	Compressor	Type		Rotary	Rotary
		Model		G4A097JU1EP	G8A124JU1EP
		Motor output	W	810	1,100
		Protection		O.L.P	O.L.P
	Heat exchanger	Type		SLIT	SLIT
		Row x Stages x Fin pitch		1 x 24 x 1.5	2 x 24 x 1.5
	Refrigerant	Control		Expansion valve	Expansion valve
		(R410A) Charge	g	890	1,050

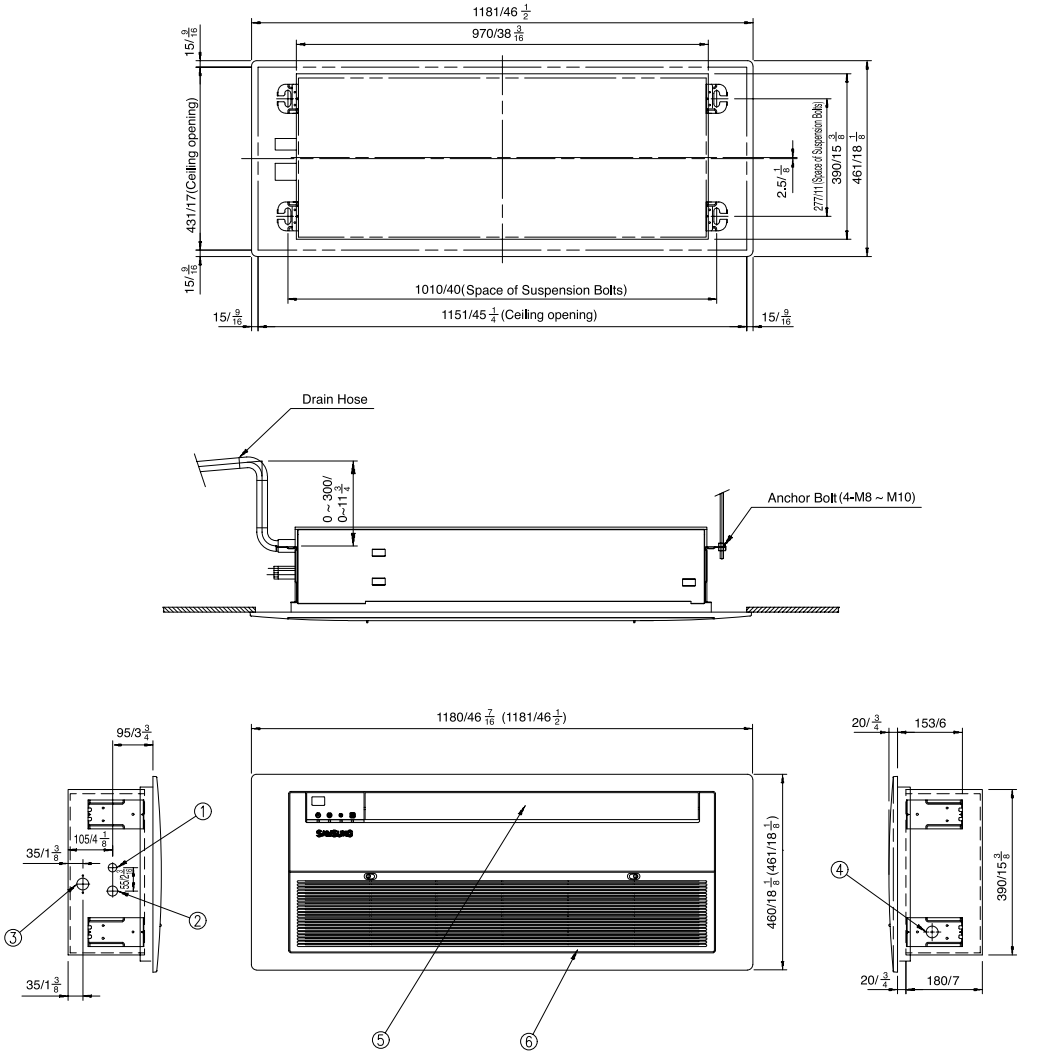
Table(cont.)

MODEL	INDOOR UNIT			KH026EAM	KH035EAM
	OUTDOOR UNIT			UH026EAM	UH035EAM
Outdoor unit	Dimensions	(H x W x D)	mm	525 x 740 x 230	525 x 740 x 230
	Weight	kg	Net / Gross	38.5 / 40	28 / 31
Piping	Pipe O.D. size	Liquid	mm(inch)	6.35 (1.4")	6.35 (1.4")
		Gas	mm(inch)	9.52 (3.8")	9.52 (3.8")
	Connection method			Flare	Flare
	Between	Height	m	Max. 15	Max. 15
		Pipe length	m	Max. 30	Max. 30

1-2 Dimensions

1-2-1 Indoor Unit

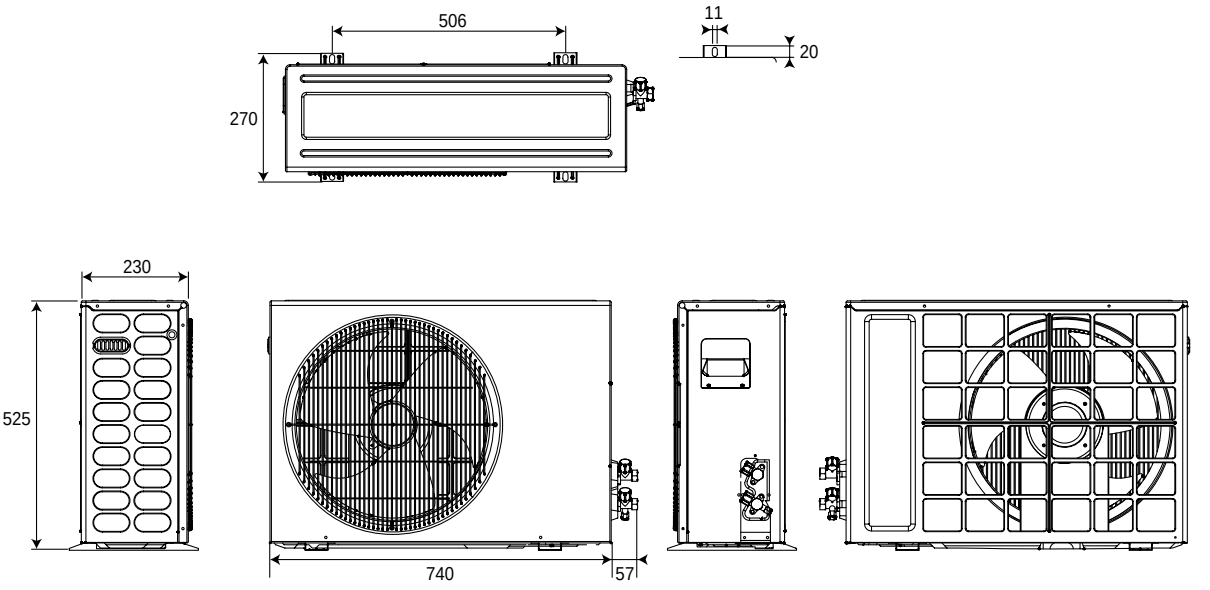
(Unit : mm/inch)



No.	Name	Remark
1	Liquid pipe connection	ø6.35(1.4") Nipple
2	Gas pipe connection	ø9.52(3.8") Flare
3	Drain pipe connection	OD29(1 1/8 ") ID25(1")
4	Power supply connection	
5	Air Inlet	
6	Air Outlet	

1-2-2 Outdoor Unit

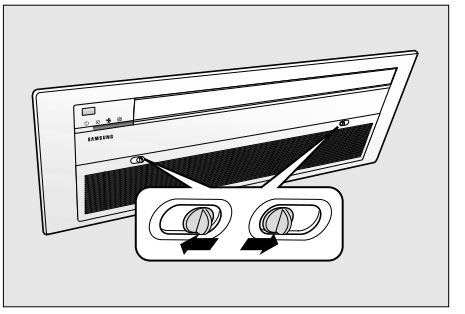
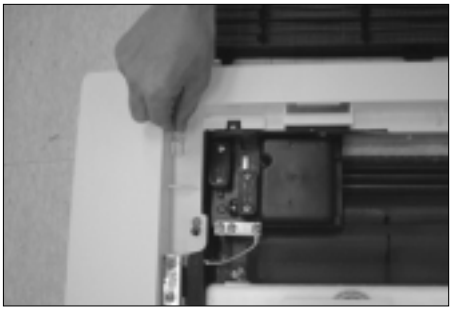
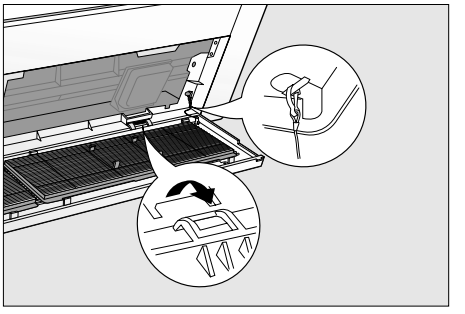
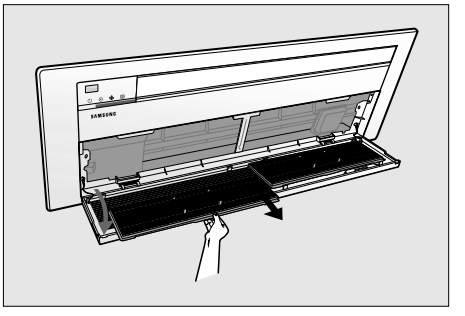
(Unit : mm)

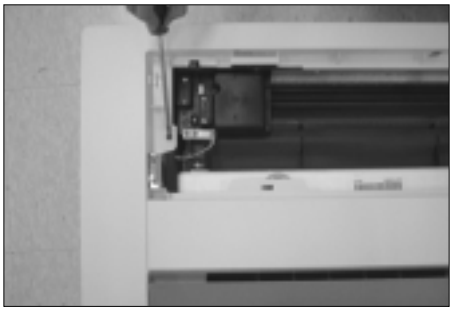


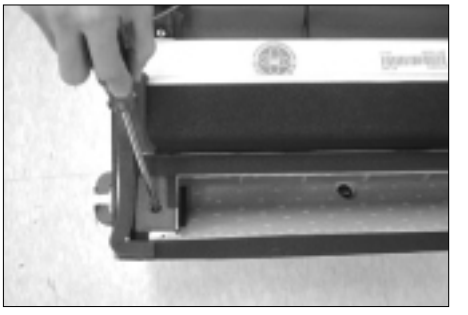
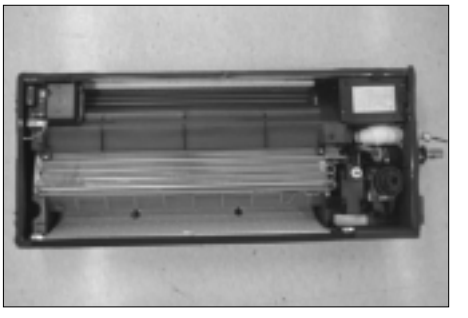
2. Disassembly and Reassembly

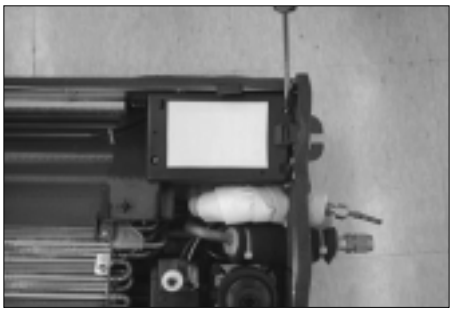
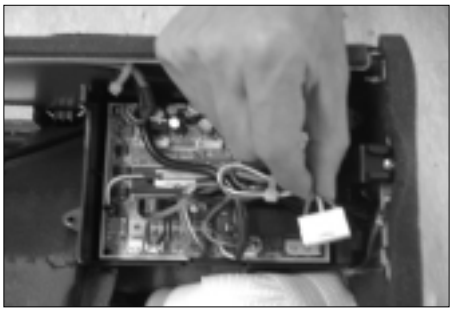
Stop operation of the air conditioner and remove the power cord before repairing the unit.

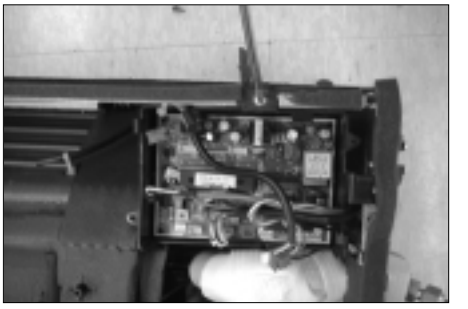
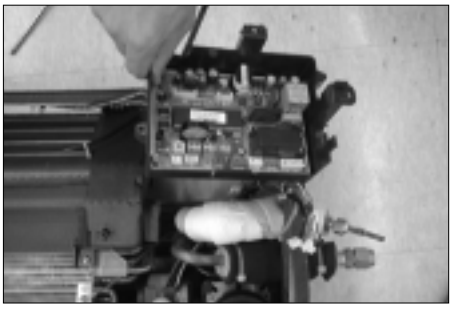
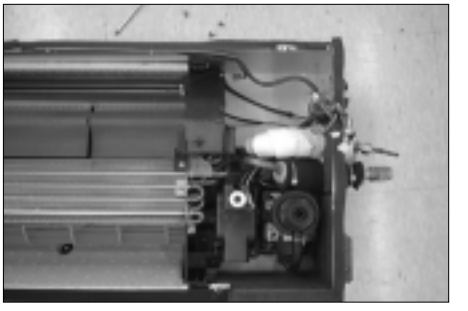
2-1 Indoor Unit

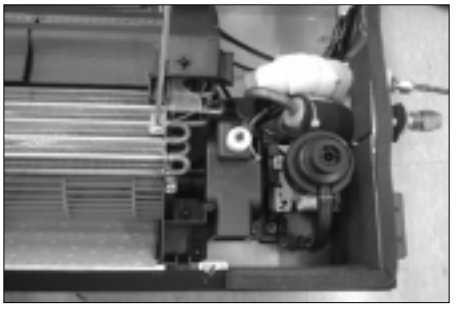
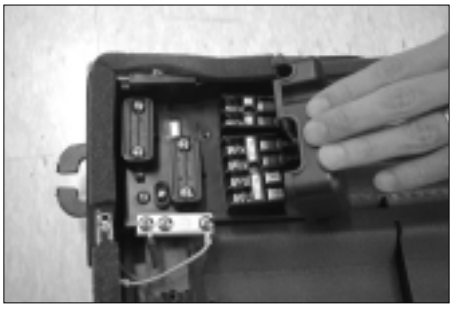
No	Parts	Procedure	Remark
①	Front Grille & Filter	1) Open the Front-Grille by pushing the tabs on the grille. **IMPORTANT** You must give attention when disassembling the Front-Grille and must check the safety clips have been installed. If you don't ensure them, the Front Grille will drop suddenly and you will be hurt.	
		2) Separate the Front Grille. 2-1. Remove the safety clips. 2-2. Open the Front Grille about 45˚ and pull it forward.	
			
		3) Pull out the Air-Filter.	

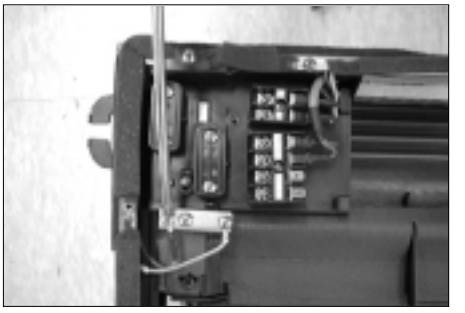
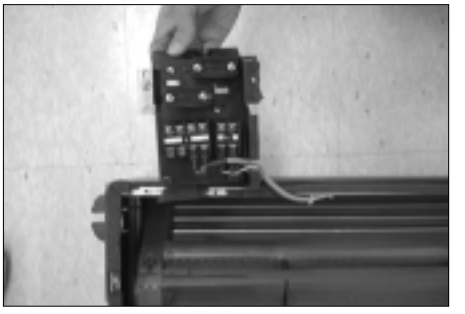
No	Parts	Procedure	Remark
②	Front Panel	1) Disassemble the 6 screws holding the panel as shown picture.	
		2) Separate the Front-Panel pressing the two hooks on the both sides of the indoor unit.	

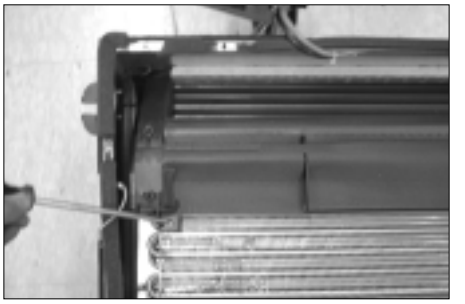
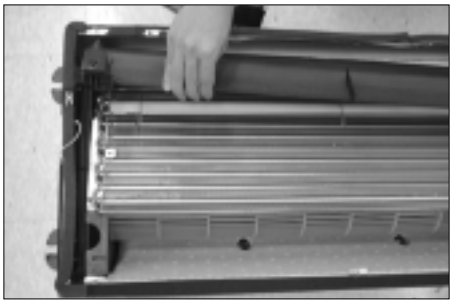
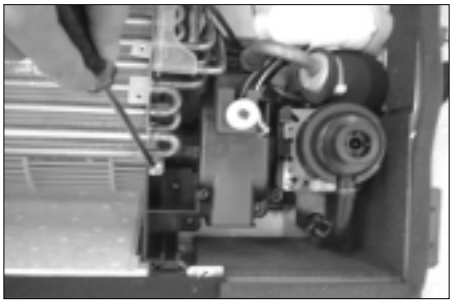
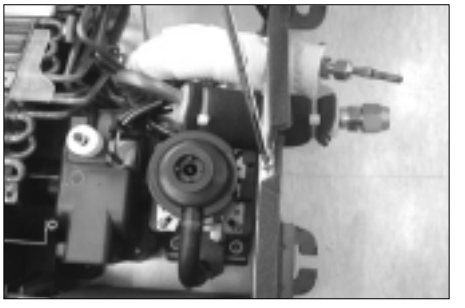
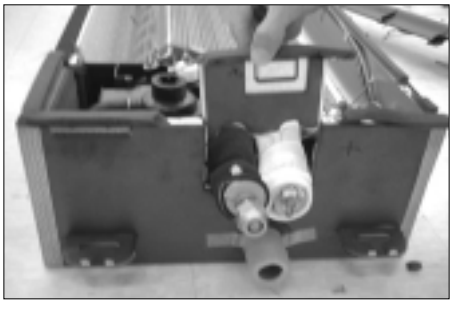
No	Parts	Procedure	Remark
③	Ass'y Drain Panel	1) Disassemble 4 screws for Ass'y Drain Panel around as shown in pictures.	
		2) Separate Ass'y Drain Panel as shown in Pictures.	

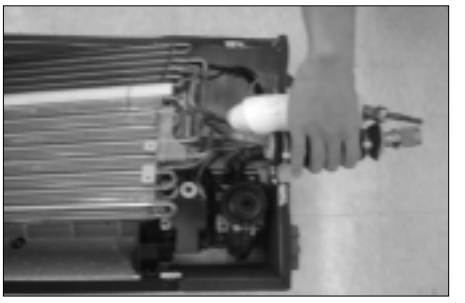
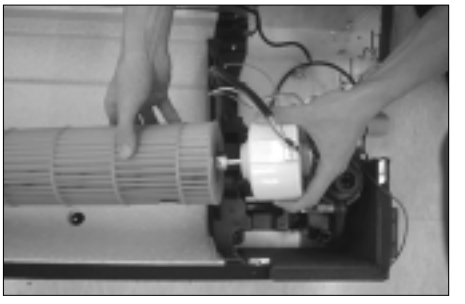
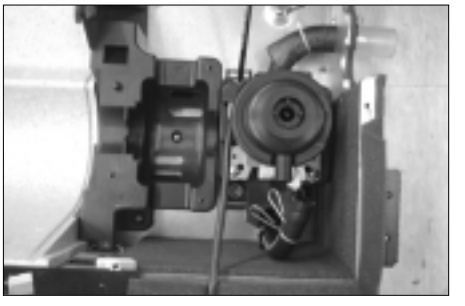
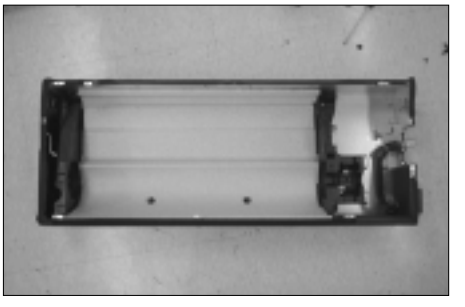
No	Parts	Procedure	Remark
④	Ass'y Control In	1) Separate the control cover after disassembling 2 screws as shown in pictures.	
		2) Separate the wire connection part of the Ass'y Main PCB as shown in picture.	

No	Parts	Procedure	Remark
		3) Disassemble 2 screws of Case Control as shown in pictures.	
		4) Disassemble 1 indicating screw.	
		5) Separate Ass'y Case Control part pulling up.	 

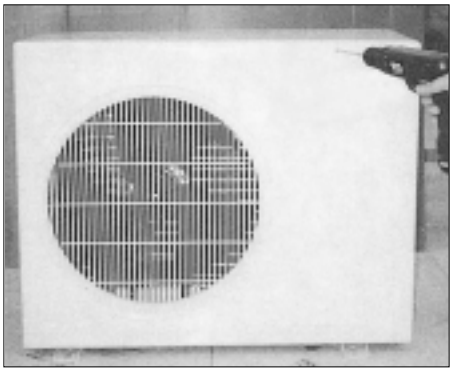
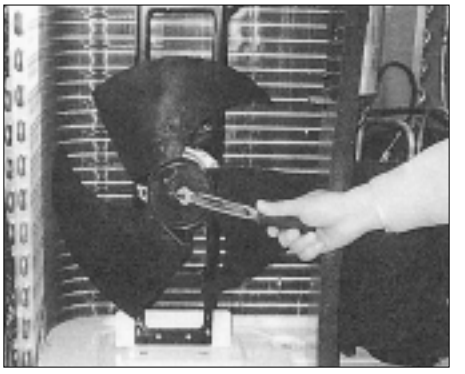
No	Parts	Procedure	Remark
		6) Disassemble 1 indicating screw and separate earth cable.	
		7) Disassemble 1 indicating screw and separate terminal cover as shown in pictures.	
			
		8) Disassemble 2 indicating screws as shown in pictures.	

No	Parts	Procedure	Remark
		9) Disassemble 2 indicating screws of earth cable and 1 indicating screws of Base Terminal.	
		10) Separate Base Terminal as shown in picture.	

No	Parts	Procedure	Remark
⑤	Ass'y Drain Panel Sub	1) Separate Ass'y Drain Panel Sub after disassemble 2 screws both side of it.	 
⑥	Ass'y Evap	1) Disassemble 4 screws of Ass'y Evap around. 2) Disassemble 2 indicating screws as shown in picture and separate Ass'y Cabi Side LF B.	  

No	Parts	Procedure	Remark
		3) Separate Ass'y Evap pulling up from the indoor unit as shown in picture.	
⑦	Ass'y Cross Fan	1) Disassemble 3 screws of cover fan motor and separate cover fan motor.	
		2) Separate Ass'y Cross Fan as shown in picture.	
⑧	Ass'y Drain Pump	1) Disassemble 4 indicating screws as shown in picture.	
		2) Separate drain hose and separate Ass'y Drain Pump as shown in pictures.	

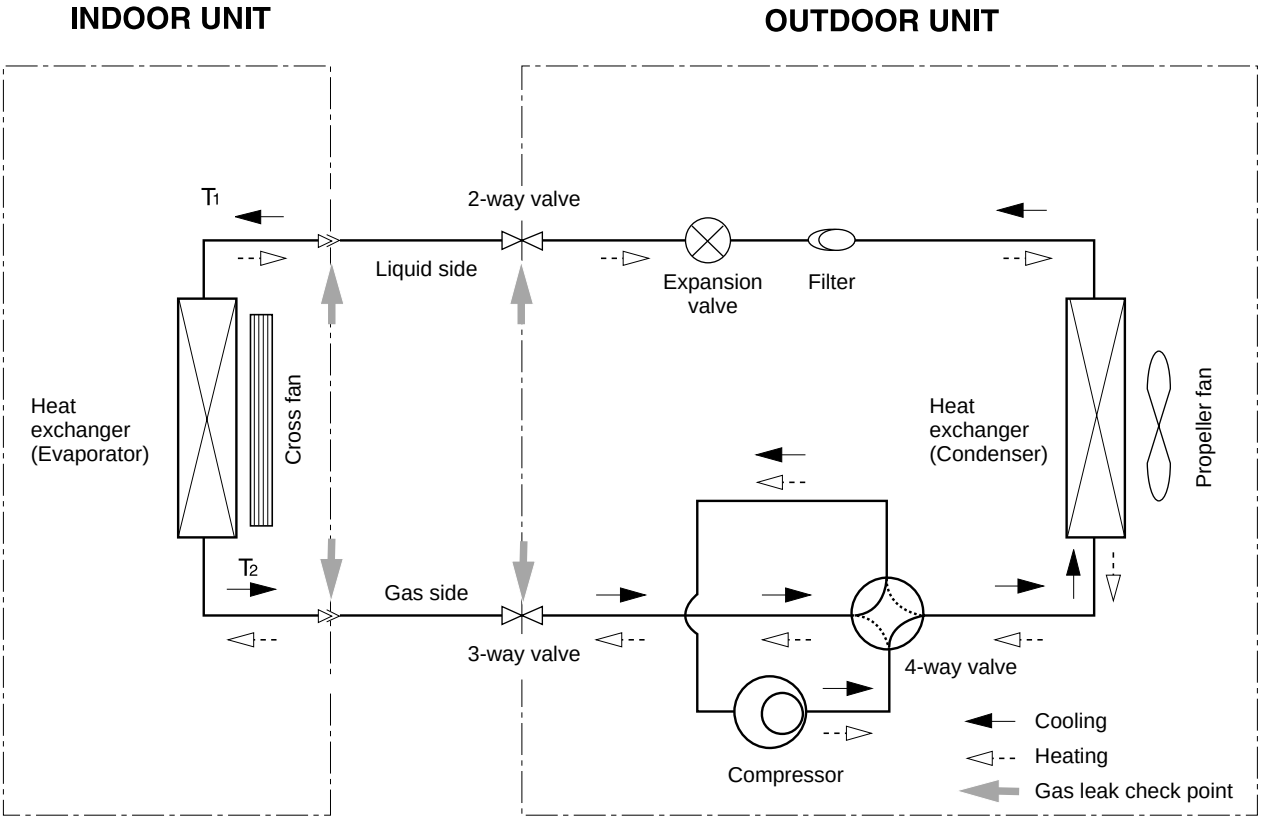
2-2 Outdoor Unit

No	Parts	Procedure	Remark
①	Cabinet	1) Turn off the unit and remove the power cable. 2) Remove the top cover. 3) Remove the control box cover. 4) Unplug the ass'y cable. 5) Remove the cabi-side. 6) Remove the cabi-front. ● When you assemble the parts, check if the each parts and electric connectors are fixed firmly.	
②	Fan Motor & Propeller Fan	1) Do Procedure ① above. 2) Remove the nut flange. (Turn to the right to remove as it is a left turned screw) 3) Disassemble the propeller fan.	

3. Block Diagrams

3-1 Refrigerating Cycle Block Diagrams

❋ Allowable pipe length : Max. 30m
❋ Allowable drop distance : Max. 15m



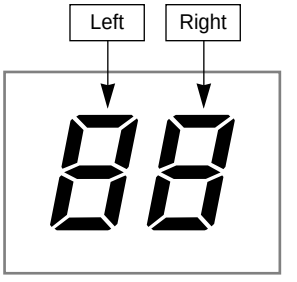
❋ When extending the pipe length by more than 5m, 10g of R-410A refrigerant should be refilled per extension length of 1m.

4. Control Specification & Troubleshooting

4-1 Operation Specification

4-1-1 Initial tracking(Communication check)-E2 indicated if abnormal

1. After input power, outdoor MICOM check the indoor unit installed on the same system and wired remote controller, transmitter etc.(Tracking)



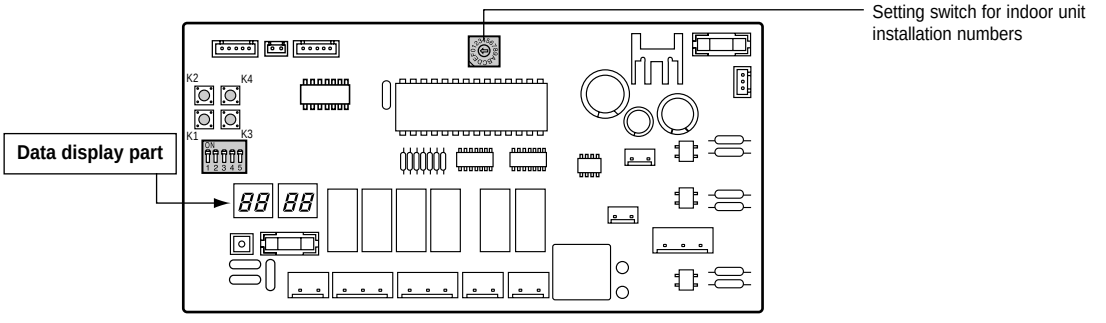
DISPLAY PART (DS1)

■ Tracking process marked on display part

- Left numeral is an address that outdoor unit transfers communication.
  0 - 1 - 2 - 3 ... - F (Calling indoor unit)
- Right numeral marks address that is answered.
- During the tracking, left calls indoor unit through
  0 - 1 - 2 - 3 ... - d - E - F and checks. At this time connected indoor unit set on " 0 " and the indoor unit set 0 address marked on right.
  Right side mark is marked by 0 when left side is 0 .

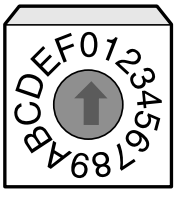
  (If SW02(MAIN) that set indoor unit address is controlled to " 0 ", indoor unit number marked on outdoor unit is marked by " 0 ".)

■ Option set part for Outdoor unit PCB



Setting switch for indoor unit installation numbers

Counts of Indoor Unit Installation	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Numbers of the switch	0/1	2	3	4	5	6	7	8	9	A	B	C	D	E	F



● Example : When the installed indoor unit is one, control the arrow of switch forward to '0' or '1' as figure.

4-1-2 Wired remote controller display specification at error occurring

Display	Description	Remarks
Er ↔ EA	Communication error when there is no signal from outdoor unit to wired remote controller.	Communication error In case of no signal for 2 minutes
Er ↔ EB	Communication error when there is no answer from wired remote controller to indoor unit.	
Er ↔ aO	Indoor unit float switch error	Indoor unit related error
Er ↔ 9O	Indoor unit room temperature sensor open/short error	
Er ↔ rO	Indoor unit evaporator temperature sensor open/short error	
Er ↔ rO	EEPROM error	
Er ↔ UO	EEPROM OPTION error	
Er ↔ uO	Fan starting error (1-way cassette model only)	
Er ↔ Eo	Outdoor unit error display when indoor unit stop • Outdoor unit sensor error (temperature and pressure) • Restart failure error • Self diagnose of Electronic valve opening /closing 6 times • Reverse phase, E2(Communication error)	Outdoor related error (Outdoor related error displays key error)
Overlapping error mark displays error in order, the next error is displayed at error correction.		

4-2 Troubleshooting

When error occurs in air conditioner, error code is displayed on indoor unit display lamp and outdoor unit.

4-2-1 Indoor unit LED error diagnosis

■ Error detection and re operation

• If error occurs during the operation, badness is indicated by LED flickering and all operation is stopped except LED.
• When reoperating by remote controller and switch determine the error mode after normal operation.

■ Indoor unit LED lamp display at error detecting

Error type	LED lamp display				Remarks
	Operation	Timer	Air flow	Filter	
Power reset	◑	×	×	×	
Room Temperature sensor error (OPEN/SHORT)	×	◑	×	×	Applied indoor unit error display
Indoor heat exchanger temperature sensor error (OPEN/SHORT)	◑	◑	×	×	Applied indoor unit error display
Outdoor temperature sensor error Condenser temperature sensor error Discharge temperature sensor error(OPEN/SHORT)	◑	×	◑	×	The whole indoor unit error display Outdoor unit separated Display
1. No communication for 2 minutes between indoor unit and outdoor unit Indoor unit detection (Communication error over 2 minutes) 2. Indoor unit received communication error signal from outdoor unit 3. Outdoor unit tracking 3 minutes error 4. After completion of tracking, when outdoor unit transfers communication error due to mismatch installing numbers with communicating numbers (Communication error over 2minutes)	×	◑	◑	×	1. Indoor unit error (Display is unrelated with operation) 2. Outdoor unit error (Display is related with operation)
1. Communication error between indoors 2. Slave of Indoor unit tracking error	◑	×	×	◑	Indoor unit error (Display is unrelated with operation)
1. The second detection of high temperature of Cond 2. The second detection of high temperature of Discharge 3. Reverse phase error	×	◑	◑	◑	The whole indoor unit error display Outdoor unit separated Display
Detection of floating S/W	×	×	◑	◑	
Error to the set of option for auxiliary control device	×	◑	×	◑	
EEPROM ERROR	◑	◑	◑	×	
EEPROM OPTION ERROR	◑	◑	◑	◑	

● : on ◑ : flickering × : off

- If you turn off the air conditioner when LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, if operates normally at first, then defected an error again.

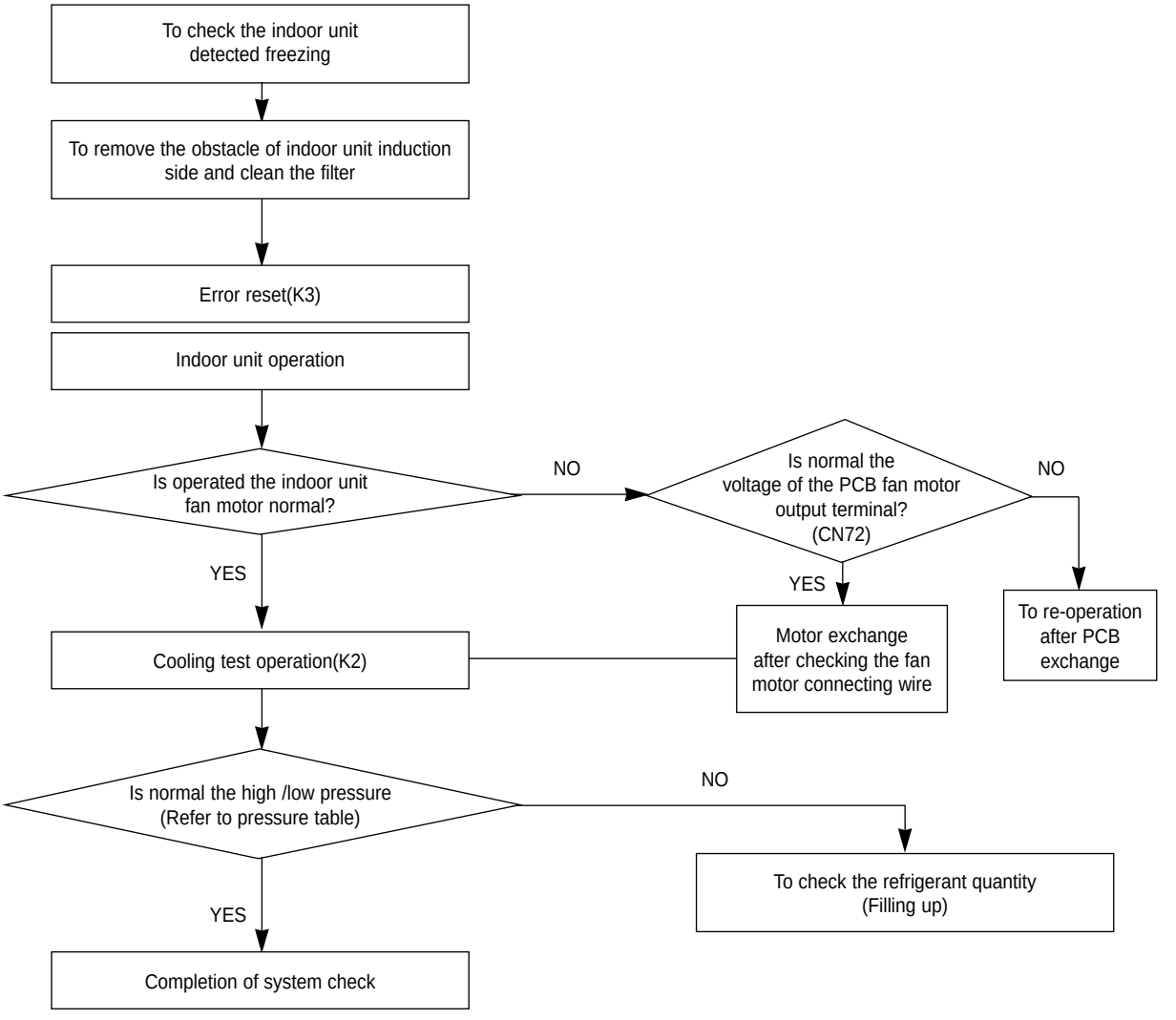
4-2-2 Outdoor unit display specification at error occurring

NO	Display		Description	Remarks
	DIS1	DIS2		
1	Er ↔ P0	OFF	High discharge temperature(Protection control)	Outdoor protection control related error
2	Er ↔ P1	OFF	High condenser temperature(Protection control)	
3	Er ↔ P4	OFF	Reverse phase detection error (Protection control)	
4	Er ↔ P5	OFF	Compressor stop due to frozen evaporator of indoor unit (every times)	
5	Er ↔ P6	OFF	Error of momentary power failure(Disappears when the unit is Off/On)	
6	Er ↔ P9	OFF	During the defrosting operation (Heat pump model only)	
7	Er ↔ t1	OFF	Outdoor temperature SENSOR ERROR (OPEN/SHORT)	Outdoor sensor related error 1 - The whole outdoor unit sensor error detection should be done during the indoor unit operation only.(But ,transferring to communication data by sensing is allowed at any time.)
8	Er ↔ t2	OFF	Condenser temperature SENSOR ERROR (OPEN/SHORT)	
9	Er ↔ t3	OFF	Discharge temperature SENSOR ERROR (OPEN/SHORT)	
10	Er ↔ E1	OFF	After tracking completion, system down due to communication error	Communication and indoor unit error related
11	Er ↔ E2	OFF	To mismatch the indoor unit number communicated with setting indoor unit after 5 times tracking completion	
12	Er ↔ E3	OFF	Floating switch error from indoor unit	
13	Er ↔ E5	OFF	Auxiliary control device use option switch setting control for indoor unit	
14	Er ↔ 90	OFF	Indoor unit room temperature sensor open/short error	Indoor/Outdoor unit self diagnosis related
15	Er ↔ r 1	OFF	Indoor unit evaporator temperature sensor open/short error	
16	Er ↔ C4	OFF	Outdoor unit electronic valve opening error (Detecting over 1 time)	
17	Er ↔ C5	OFF	Outdoor unit electronic valve closing error (Detecting over I time)	
18	tU or to flickering	OFF	tU (below -5˚C at cooling), to (over 30˚C at heating)	Operation status display
Display priority order at overlapping error : E1→E4→E5→P0→P0→P5→P6→t1→t2→t3→tu→to→G4→G5→E3→qx→rx→ux→K1, 2, 3, 4, 5 - If several indoor unit report the same error, the fast address is priority.				

4-3 Sequence for trouble diagnosis

4-3-1 The freezing of indoor unit heat exchanger

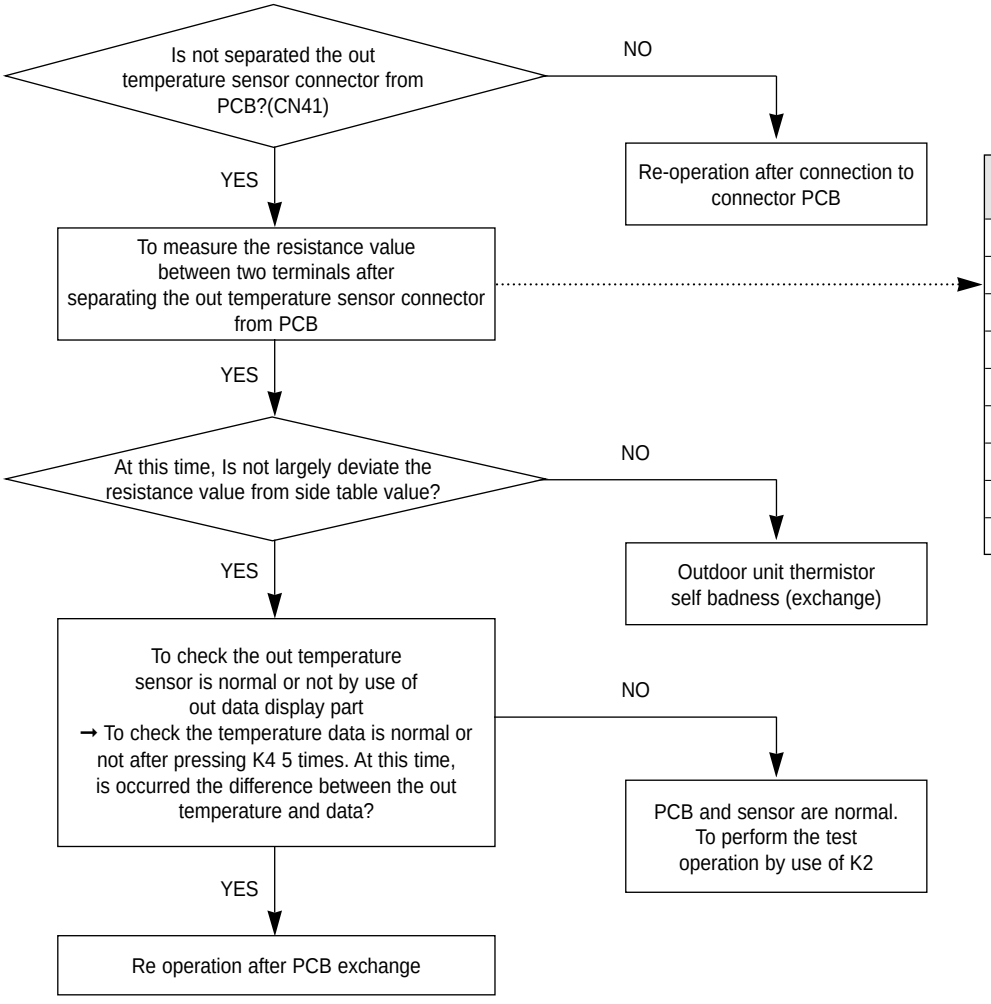
Outdoor unit display	**Er → P5 (Detection for the indoor unit freezing)**
Indoor unit display	× (Operation) ◑ (Timer) ◑ (Airflow) ◑ (Filter)
How to determine	T_COIL ≤ C x T_AIROUT-a & T_COIL ≤ -5˚C (The status that time continues for 5 minutes) Pipe sensor temperature of outdoor heat exchanger : T_COIL Outdoor temperature : T_AIROUT C : the open air constant If T_AIROUT < 0˚C → 0.8 T_AIROUT ≥ 0˚C → 0.6 a : Freezing temperature constant(Default setting value of plant shipping : M=10)
Reason of error	- Indoor fan motor lock or badness - Main PCB badness


To check the indoor unit detected freezing
To remove the obstacle of indoor unit induction side and clean the filter
Error reset(K3)
Indoor unit operation
Is operated the indoor unit fan motor normal?
NO
Is normal the voltage of the PCB fan motor output terminal? (CN72)
NO
YES
YES
Cooling test operation(K2)
Motor exchange after checking the fan motor connecting wire
To re-operation after PCB exchange
Is normal the high /low pressure (Refer to pressure table)
NO
YES
To check the refrigerant quantity (Filling up)
Completion of system check

✻ If the out temperature is so low (Below -5˚C), freezing is possible to indoor unit.

4-3-2 Out temperature sensor

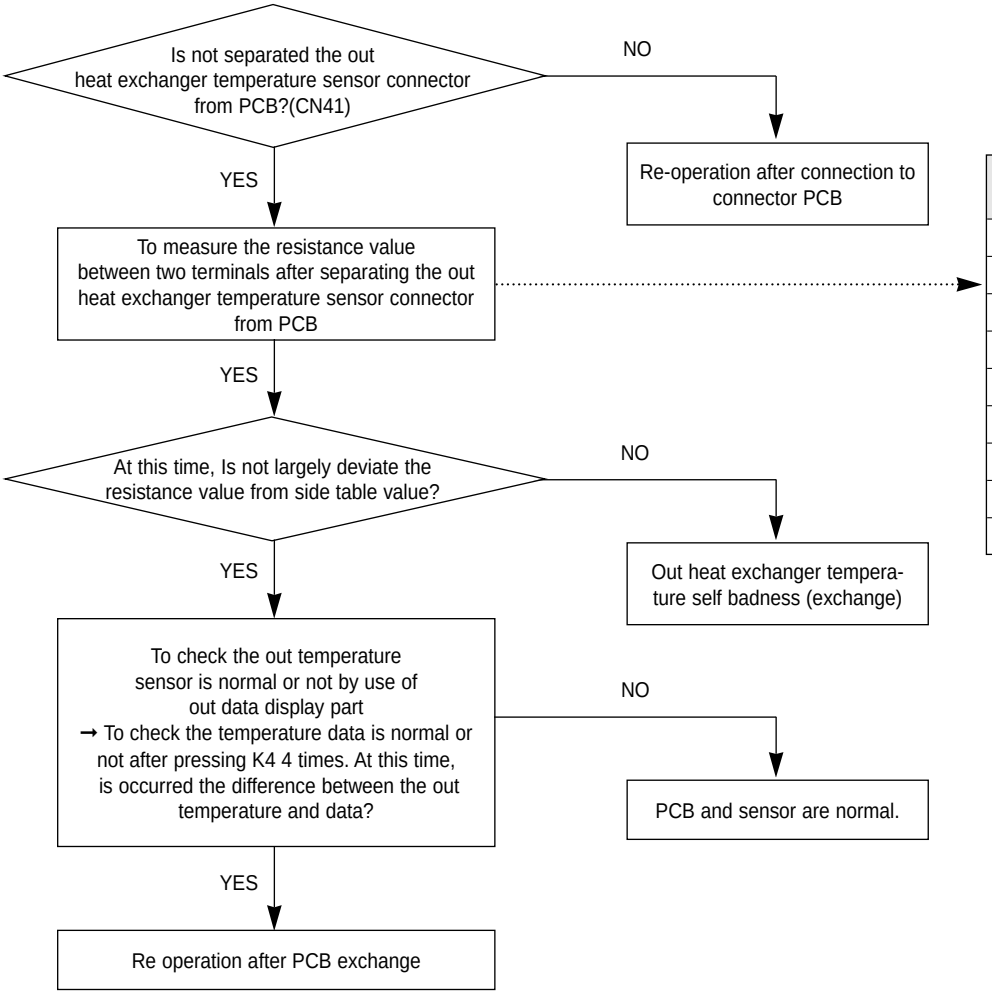
Outdoor unit display	**Er → t1 (Out temperature sensor OPEN/SHORT error)**
Indoor unit display	◑ (Operation) × (Timer) ◑ (Airflow) × (Filter)
How to determine	Disconnection and short of out temperature sensor
Reason of error	Disconnection or leak of applied sensor


Is not separated the out temperature sensor connector from PCB?(CN41)
NO
Re-operation after connection to connector PCB
YES
To measure the resistance value between two terminals after separating the out temperature sensor connector from PCB
YES
At this time, Is not largely deviate the resistance value from side table value?
NO
Outdoor unit thermistor self badness (exchange)
YES
To check the out temperature sensor is normal or not by use of out data display part
→ To check the temperature data is normal or not after pressing K4 5 times. At this time, is occurred the difference between the out temperature and data?
NO
PCB and sensor are normal. To perform the test operation by use of K2
YES
Re operation after PCB exchange

Temperature (˚C)	Resistance (kΩ)
70	2.2
60	3.0
50	4.2
40	5.8
30	8.3
20	12.1
10	18.0
0	27.3
-10	43.0

4-3-3 Out heat exchanger temperature sensor

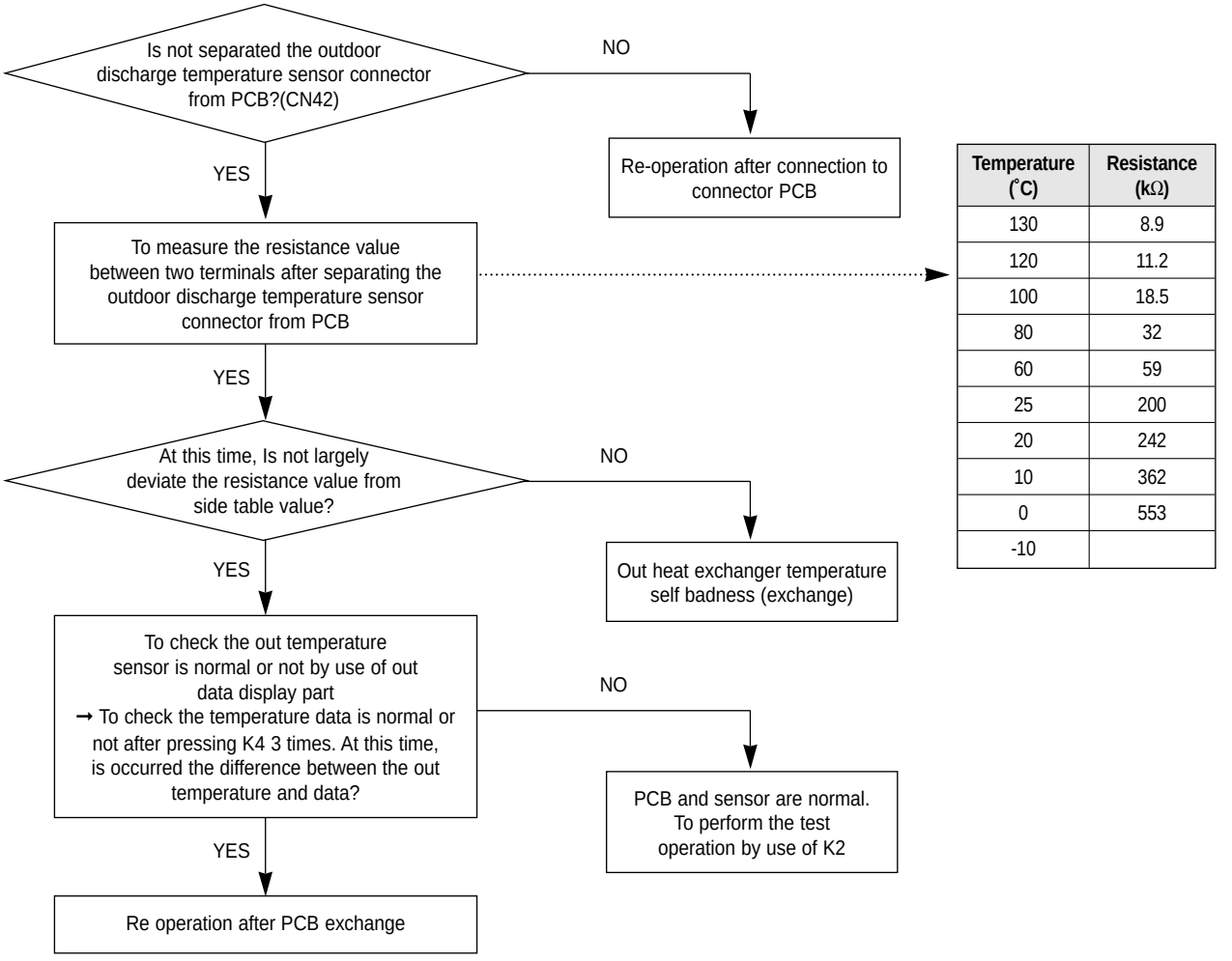
Outdoor unit display	**Er → t2 (Out heat exchanger temperature sensor error(OPEN/SHORT)**
Indoor unit display	◑ (Operation) × (Timer) ◑ (Airflow) × (Filter)
How to determine	Disconnection and short of out heat exchanger temperature sensor
Reason of error	Disconnection or leak of Applied sensor


Is not separated the out heat exchanger temperature sensor connector from PCB?(CN41)
NO
Re-operation after connection to connector PCB
YES
To measure the resistance value between two terminals after separating the out heat exchanger temperature sensor connector from PCB
YES
At this time, Is not largely deviate the resistance value from side table value?
NO
Out heat exchanger temperature self badness (exchange)
YES
To check the out temperature sensor is normal or not by use of out data display part
→ To check the temperature data is normal or not after pressing K4 4 times. At this time, is occurred the difference between the out temperature and data?
NO
PCB and sensor are normal.
YES
Re operation after PCB exchange

Temperature (˚C)	Resistance (kΩ)
70	2.2
60	3.0
50	4.2
40	5.8
30	8.3
20	12.1
10	18.0
0	27.3
-10	43.0

4-3-4 Outdoor discharge temperature sensor error(OPEN/SHORT)

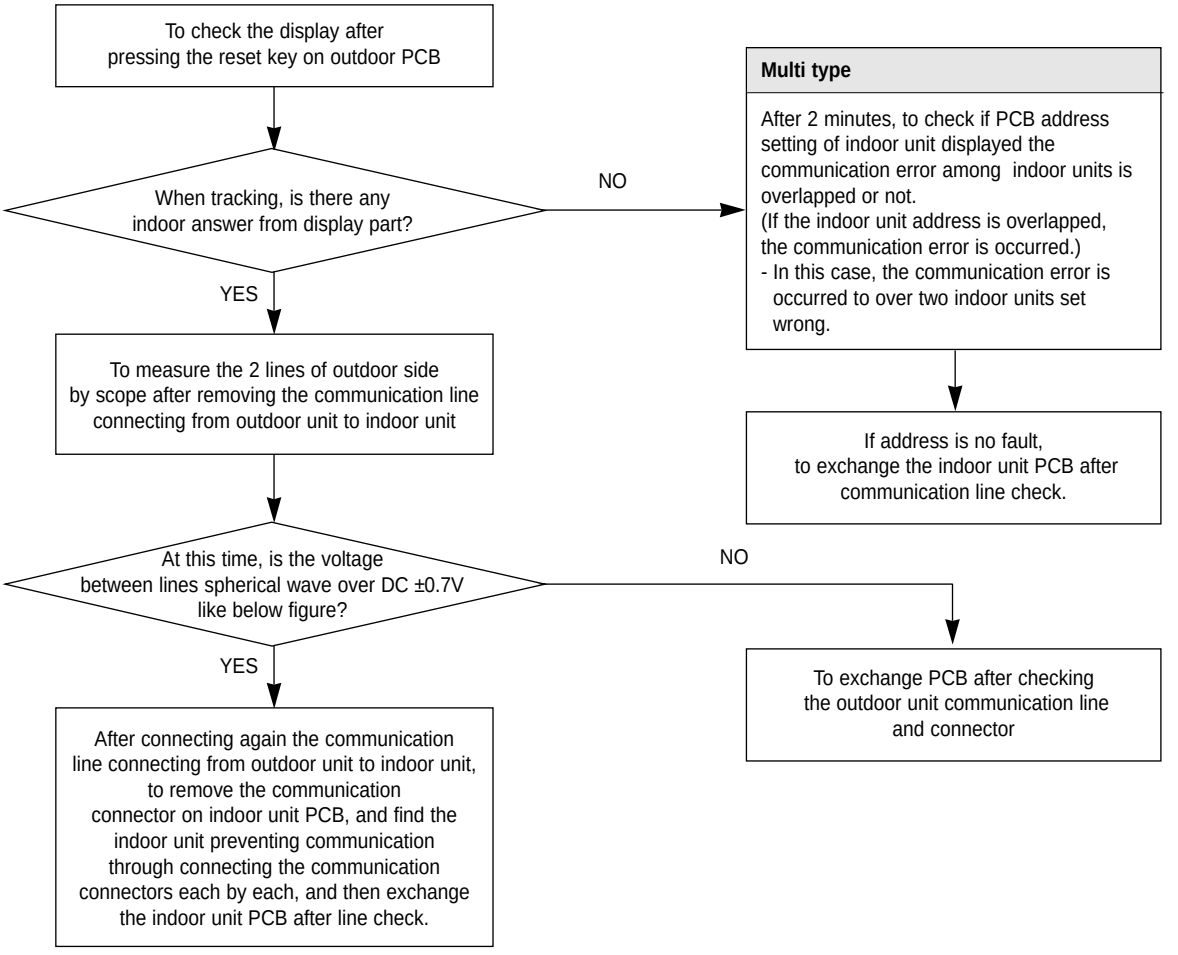
Outdoor unit display	**Er → t3 (Outdoor discharge temperature sensor OPEN/SHORT error)**
Indoor unit display	◑ (Operation) × (Timer) ◑ (Airflow) × (Filter)
How to determine	Disconnection and short of out heat exchanger temperature sensor
Reason of error	Disconnection or leak of Applied sensor

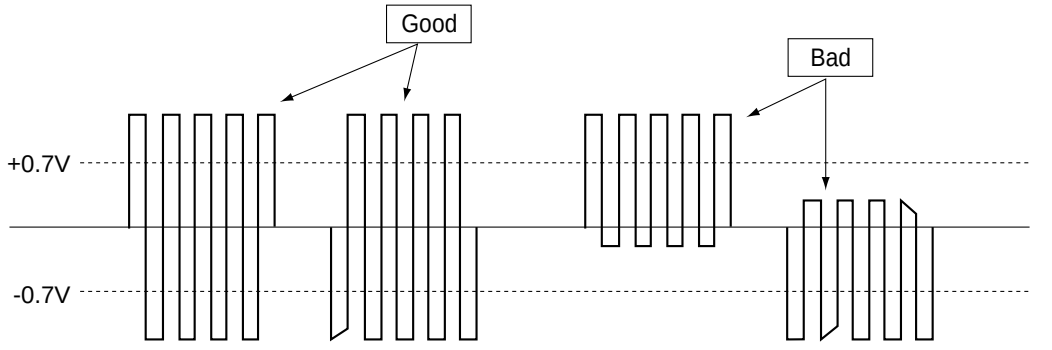

Is not separated the outdoor discharge temperature sensor connector from PCB?(CN42)
NO
Re-operation after connection to connector PCB
YES
To measure the resistance value between two terminals after separating the outdoor discharge temperature sensor connector from PCB
YES
At this time, Is not largely deviate the resistance value from side table value?
NO
Out heat exchanger temperature self badness (exchange)
YES
To check the out temperature sensor is normal or not by use of out data display part
→ To check the temperature data is normal or not after pressing K4 3 times. At this time, is occurred the difference between the out temperature and data?
NO
PCB and sensor are normal. To perform the test operation by use of K2
YES
Re operation after PCB exchange

Temperature (˚C)	Resistance (kΩ)
130	8.9
120	11.2
100	18.5
80	32
60	59
25	200
20	242
10	362
0	553
-10	

4-3-5 Communication error during the operation

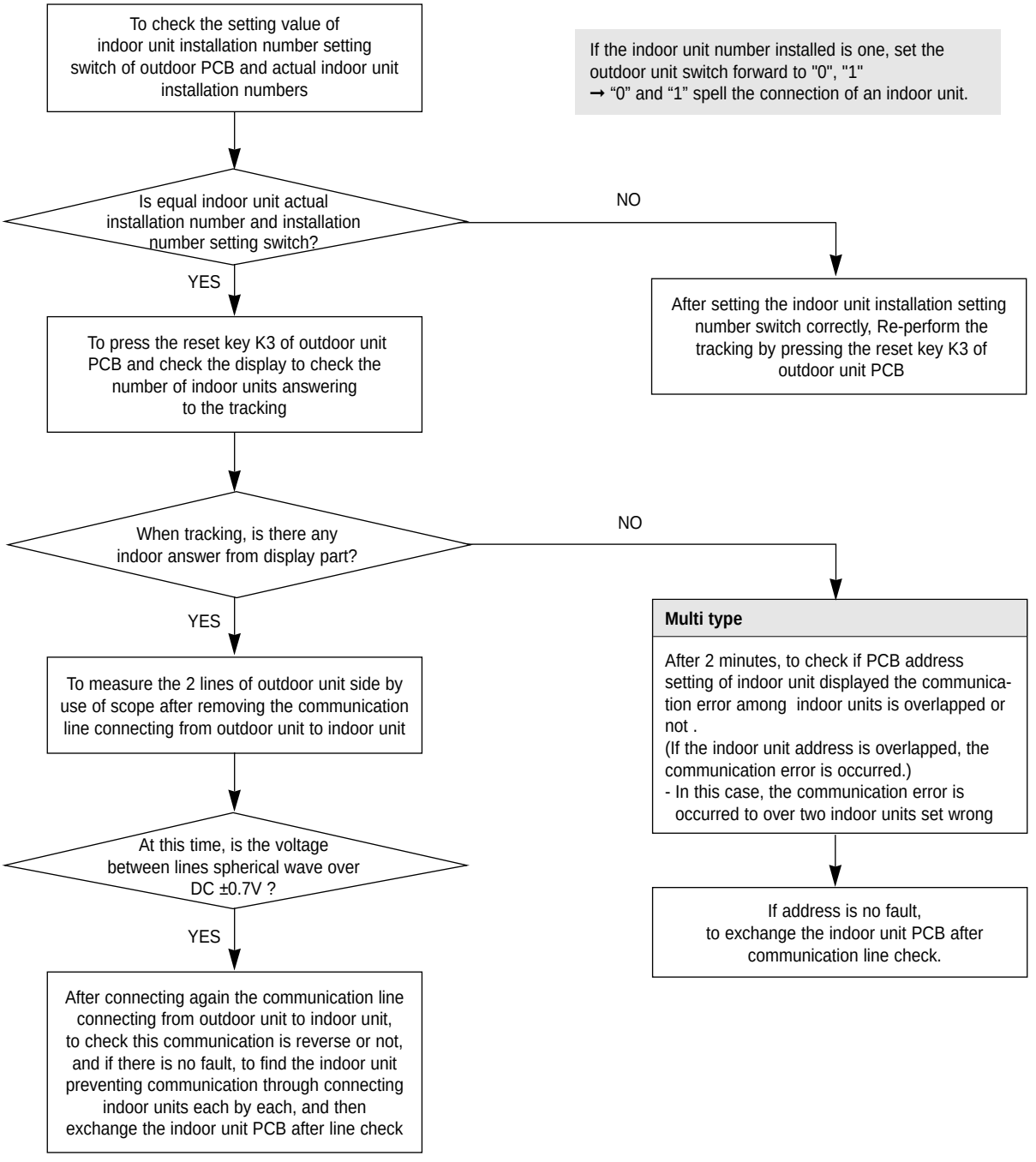
Outdoor unit display	**Er → E1 (Communication error during the operation)**
Indoor unit display	× (Operation) ◑ (Timer) ◑ (Airflow) × (Filter)
How to determine	In case that the communication is not available for 2 minutes during operation between indoor and outdoor unit
Reason of error	Communication error between indoor unit and outdoor unit


To check the display after pressing the reset key on outdoor PCB
When tracking, is there any indoor answer from display part?
NO
YES
Multi type
After 2 minutes, to check if PCB address setting of indoor unit displayed the communication error among indoor units is overlapped or not.
(If the indoor unit address is overlapped, the communication error is occurred.)
- In this case, the communication error is occurred to over two indoor units set wrong.
If address is no fault, to exchange the indoor unit PCB after communication line check.
To measure the 2 lines of outdoor side by scope after removing the communication line connecting from outdoor unit to indoor unit
At this time, is the voltage between lines spherical wave over DC ±0.7V like below figure?
NO
YES
To exchange PCB after checking the outdoor unit communication line and connector
After connecting again the communication line connecting from outdoor unit to indoor unit, to remove the communication connector on indoor unit PCB, and find the indoor unit preventing communication through connecting the communication connectors each by each, and then exchange the indoor unit PCB after line check.



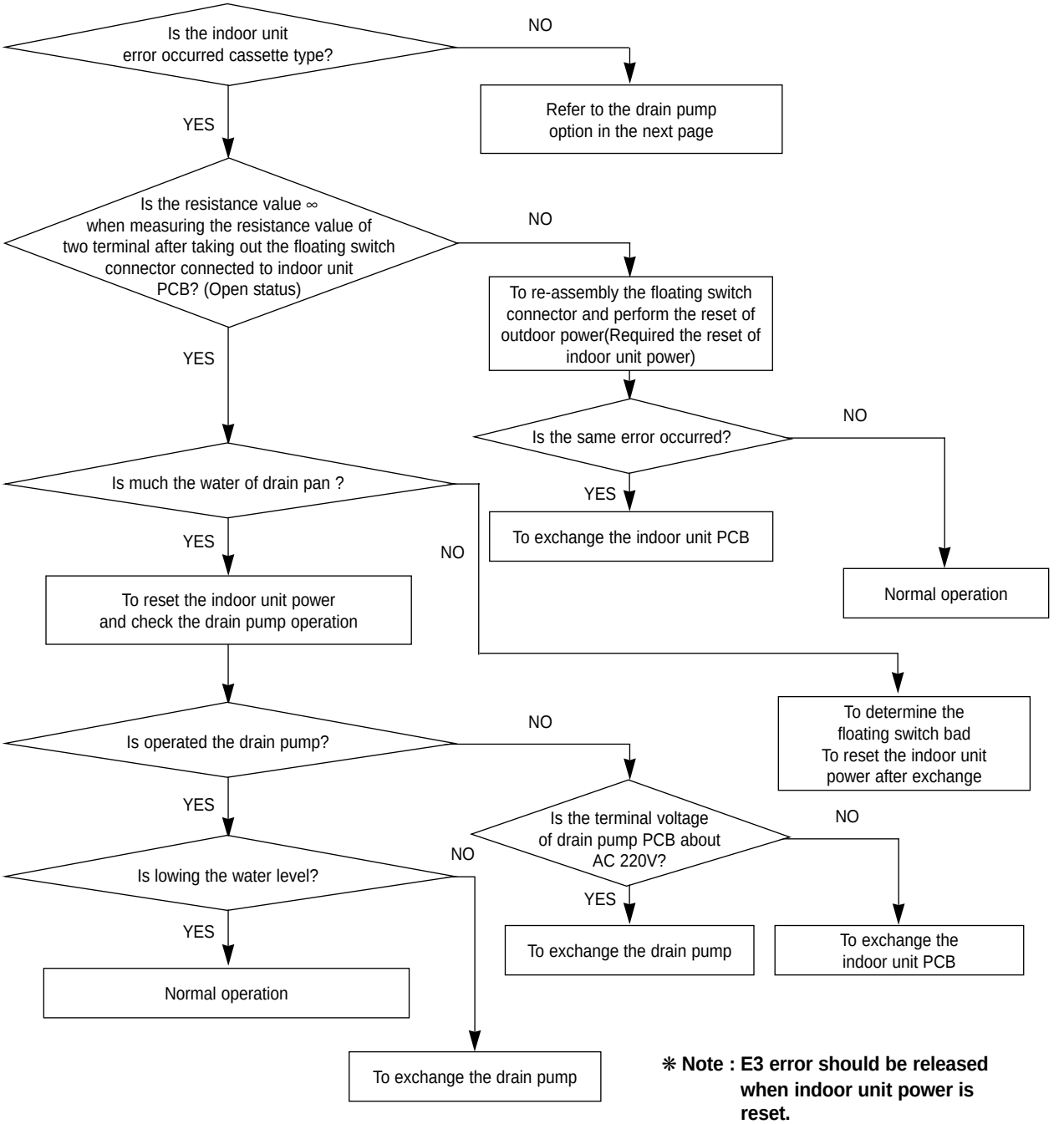
4-3-6 Communication error between indoor and outdoor after initial power input.

Outdoor unit display	**Er → E2 (Tracking error)**
Indoor unit display	× (Operation) ◑ (Timer) ◑ (Airflow) × (Filter)
How to determine	Mismatching the communicating indoor unit and setting switch indoor numbers When outdoor tracking
Reason of error	Communication error between the indoor unit and outdoor unit, and installation number switch setting miss


To check the setting value of indoor unit installation number setting switch of outdoor PCB and actual indoor unit installation numbers
If the indoor unit number installed is one, set the outdoor unit switch forward to "0", "1"
→ “0” and “1” spell the connection of an indoor unit.
Is equal indoor unit actual installation number and installation number setting switch?
NO
YES
After setting the indoor unit installation setting number switch correctly, Re-perform the tracking by pressing the reset key K3 of outdoor unit PCB
To press the reset key K3 of outdoor unit PCB and check the display to check the number of indoor units answering to the tracking
When tracking, is there any indoor answer from display part?
NO
YES
Multi type
After 2 minutes, to check if PCB address setting of indoor unit displayed the communication error among indoor units is overlapped or not .
(If the indoor unit address is overlapped, the communication error is occurred.)
- In this case, the communication error is occurred to over two indoor units set wrong
To measure the 2 lines of outdoor unit side by use of scope after removing the communication line connecting from outdoor unit to indoor unit
At this time, is the voltage between lines spherical wave over DC ±0.7V ?
YES
If address is no fault, to exchange the indoor unit PCB after communication line check.
After connecting again the communication line connecting from outdoor unit to indoor unit, to check this communication is reverse or not, and if there is no fault, to find the indoor unit preventing communication through connecting indoor units each by each, and then exchange the indoor unit PCB after line check

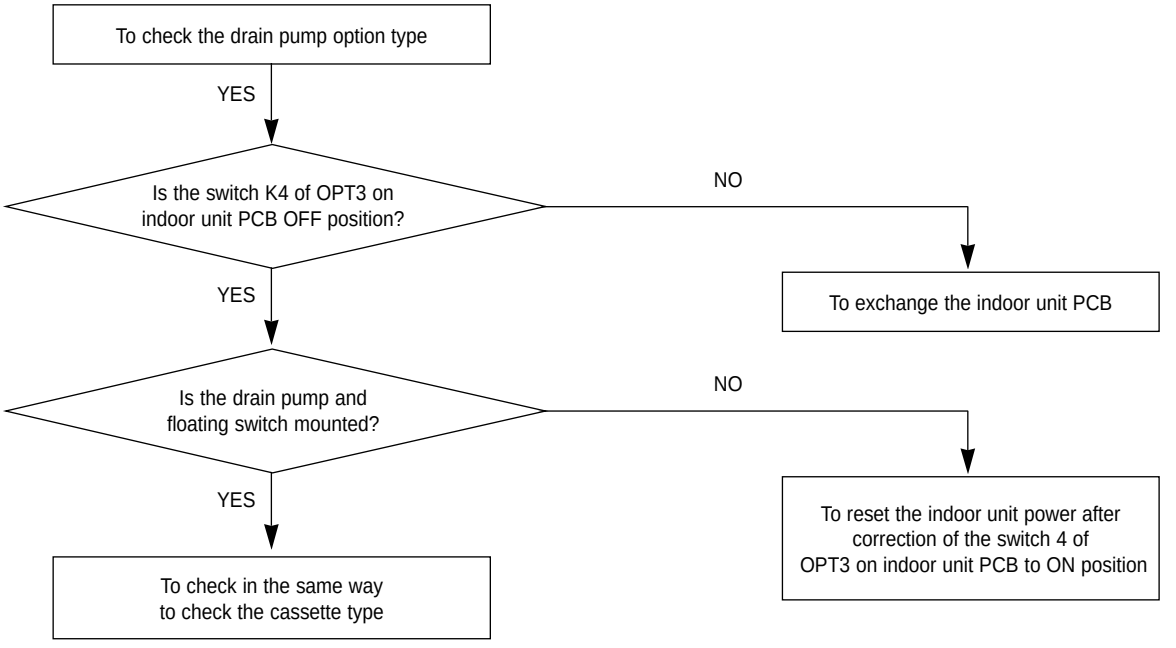
4-3-7 Indoor floating switching error

Outdoor unit display	**Er → E3 (Indoor floating switching error)**
Indoor unit display	× (Operation) × (Timer) ◑ (Airflow) ◑ (Filter)
How to determine	The status continues over 1 minute that indoor unit floating switch is opened.
Reason of error	The rising of water level of drain pan due to the disorder of indoor unit drain pump, the badness of detection sensor


Is the indoor unit error occurred cassette type?
NO
Refer to the drain pump option in the next page
YES
Is the resistance value ∞ when measuring the resistance value of two terminal after taking out the floating switch connector connected to indoor unit PCB? (Open status)
NO
To re-assembly the floating switch connector and perform the reset of outdoor power(Required the reset of indoor unit power)
YES
Is the same error occurred?
NO
YES
To exchange the indoor unit PCB
Normal operation
Is much the water of drain pan ?
YES
NO
To reset the indoor unit power and check the drain pump operation
To determine the floating switch bad To reset the indoor unit power after exchange
Is operated the drain pump?
NO
YES
Is the terminal voltage of drain pump PCB about AC 220V?
NO
Is lowing the water level?
NO
YES
YES
To exchange the drain pump
To exchange the indoor unit PCB
Normal operation
To exchange the drain pump

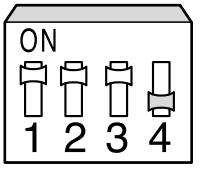
※ Note : E3 error should be released when indoor unit power is reset.

■ Indoor floating switching error (cont.)


To check the drain pump option type
YES
Is the switch K4 of OPT3 on indoor unit PCB OFF position?
NO
To exchange the indoor unit PCB
YES
Is the drain pump and floating switch mounted?
NO
To reset the indoor unit power after correction of the switch 4 of OPT3 on indoor unit PCB to ON position
YES
To check in the same way to check the cassette type

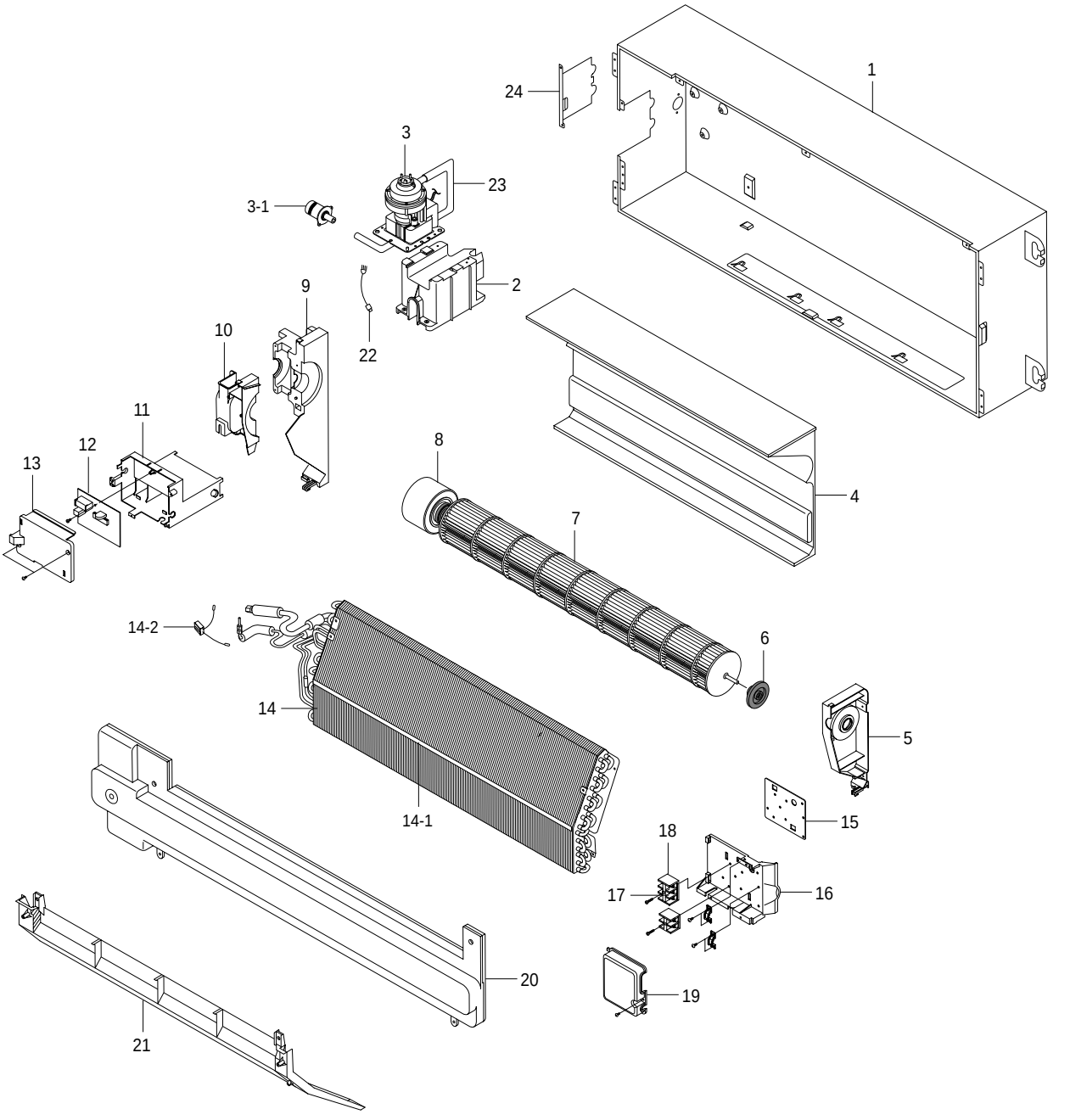
✻ Note : E3 error should be released when indoor unit power is reset.

The position of switch	Function
ON	Non use of the drain pump
OFF	Use of the drain pump



5. Exploded Views and Parts List

5-1 Indoor Unit



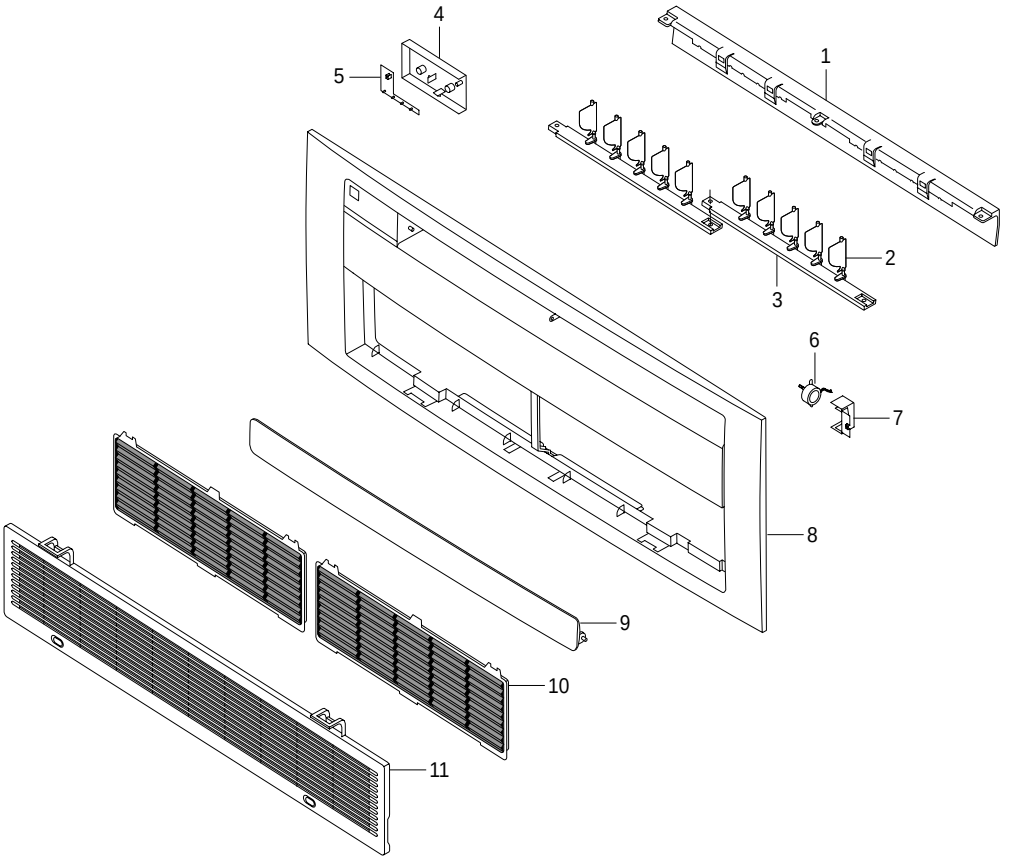
You can search for the updated part code number through the ITSELF.

URL : http://itself.sec.samsung.co.kr

■ Parts List

No.	Code No.	Description	Specification	Q'TY	
				KH026EAM	KH035EAM
1	DB90-00588B	ASS'Y CABI IN	ASS'Y	1	1
2	DB61-00364A	HOLDER DRAIN PUMP	Fire-Resistant P.S(V0)	1	1
3	DB67-00114A	DRAIN PUMP	SAUERMANN	1	1
3-1	DB67-00285A	DRAIN HOSE-SOCKET	POM	1	1
4	DB69-00298A	CUSHION BODY	EPS	1	1
5	DB61-00363A	CASE-FAN SIDE	Fire-Resistant P.S(V0)	1	1
6	DB94-00066A	ASS'Y BEARING	ASS'Y	1	1
7	DB94-00040K	ASS'Y CROSS FAN	ASS'Y	1	1
8	DB31-10078M	MOTOR FAN	PFS040WTVE	1	1
9	DB61-00354A	HOUSING MOTOR	Fire-Resistant P.S(V0)	1	1
10	DB63-00165A	COVER FAN MOTOR	Fire-Resistant P.S(V0)	1	1
11	DB61-00362A	CASE CONTROL	Fire-Resistant P.S(V0)	1	1
12	DB93-00818B	ASS'Y PCB MAIN-IN	ASS'Y	1	1
13	DB63-00167A	COVER CONTROL	ASS'Y	1	1
14	DB96-01188C	ASS'Y EVAP	ASS'Y	1	1
14-1	DB60-00028A	SPACER EVAP	ABS	1	1
14-2	DB32-00035B	THERMISTOR-ASSY	103AT	1	1
15	DB61-00365A	BRACKET TERMINAL	SGCC-M	1	1
16	DB61-00394B	BASE TERMINAL	ABS	1	1
17	DB65-00004P	TERMINAL BLOCK	DAF 2P	1	1
18	DB65-00004C	TERMINAL BLOCK	DAF 4P	1	1
19	DB63-00168A	COVER TERMINAL	Fire-Resistant P.S(V0)	1	1
20	DB94-00084A	ASS'Y DRAIN	ASS'Y	1	1
21	DB94-00094B	ASS'Y DRAIN PAN SUB	ASS'Y	1	1
22	DB95-00131A	ASS'Y SENSOR FLOAT	ASS'Y	1	1
23	DB96-00581A	ASS'Y CHECK VALVE	ASS'Y	1	1
24	DB90-00589A	ASS'Y CABI-SIDE LF	ASS'Y	1	1

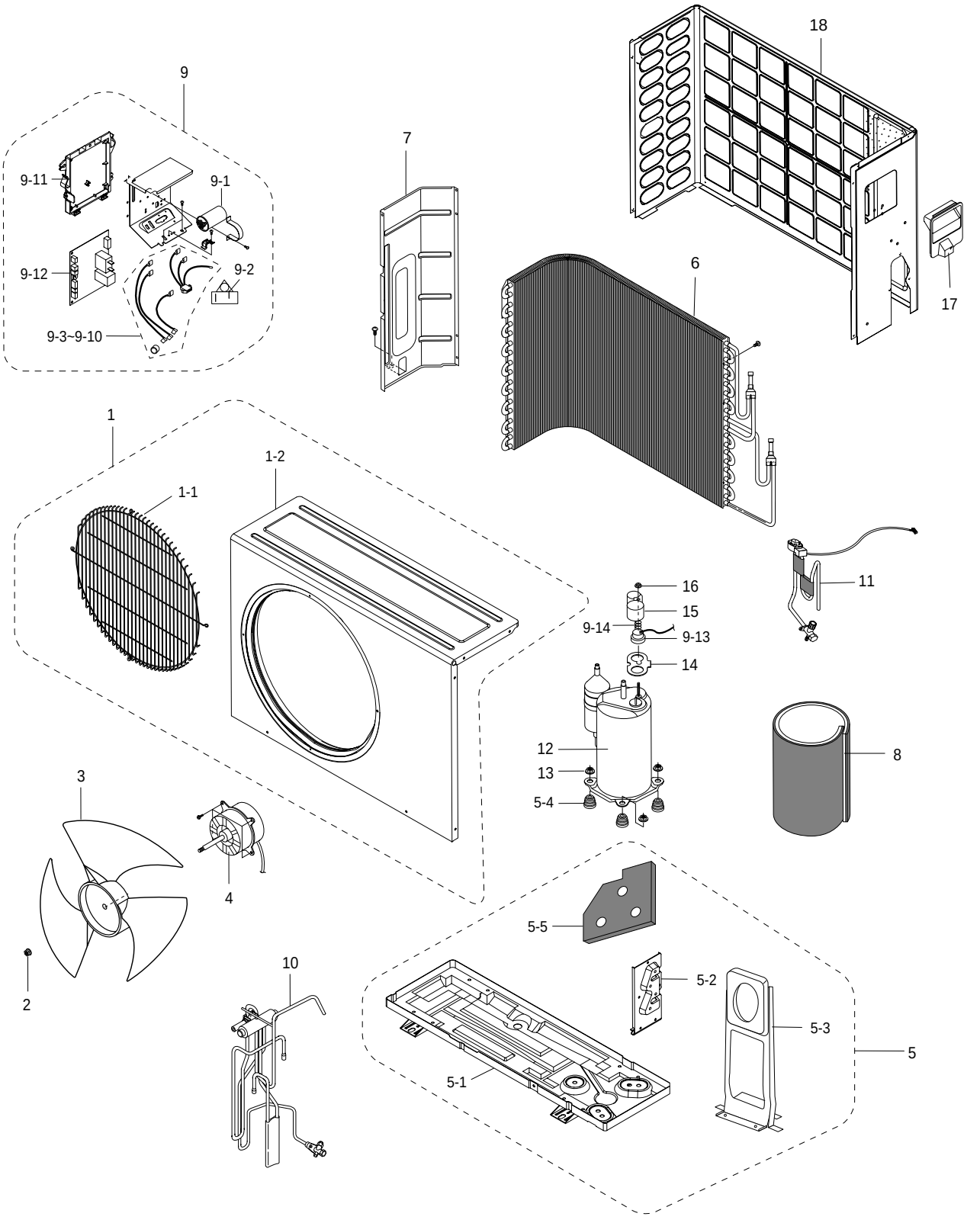
5-2 1-Way Cassette Type (Panel)



■ **Parts List**

No.	Code No.	Description	Specification	Q'TY
				PK118M
1	DB63-00164A	COVER BLADE	HIPS (UL94-V0)	1
2	DB66-00160A	BLADE-V	HIPS (UL94-V0)	10
3	DB66-00157A	LINK BLADE	POM	2
4	DB63-00163A	COVER PCB CASE	HIPS (UL94-V0)	1
5	DB98-01021A	DISPLAY PCB ASS'Y		1
6	DB31-10153D	STEP MOTOR	MSFCC20A05	1
7	DB61-00535A	HOLDER MOTOR	HIPS (UL94-V0)	1
8	DB64-00234A	PANEL FRONT	HIPS (UL94-V0)	1
9	DB66-00159A	BLADE-H	HIPS (UL94-V0)	1
10	DB64-00243A	GRILLE FRONT	HIPS (UL94-V0)	1
11	DB64-00244A	GRILLE AIR INLET	PP	1

5-3 Outdoor Unit

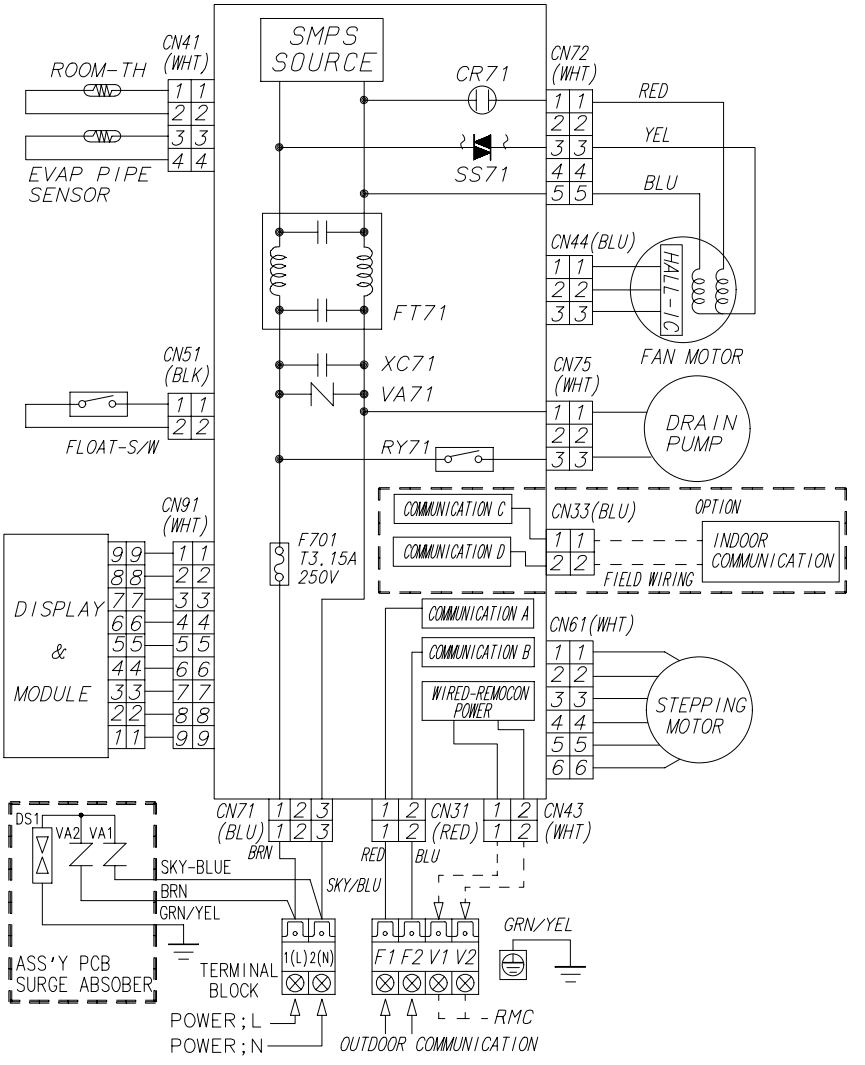


■ Parts List

No.	Code No.	Description	Specification	Q'TY	
				UH026EAM	UH035EAM
1	DB90-00633K	ASS'Y CABI FRONT	ASS'Y	1	1
1-1	DB63-00385B	GUARD FAN	HSWR,SC-90073T	1	1
1-2	DB64-00439A	CABINET-FRONT	SECC-P	1	1
2	DB60-30020A	NUT FLANGE	2C SM20C M6 NTR	1	1
3	DB67-50063A	PROPELLER-FAN	AS+G/F,20%	1	1
4	DB31-00001C	MOTOR FAN OUT	220/240V, 60/50Hz	1	1
5	DB90-00687E	ASS'Y BASE OUT	ASS'Y	1	1
5-1	DB90-00635A	ASS'Y BASE	ASS'Y	1	1
5-2	DB61-00887A	BRACKET VALVE	SECC-P,T1.6	1	1
5-3	DB61-00802A	BRACKET MOTOR	SGCC-M,T1.2	1	1
5-4	DB73-00070A	GROMMET-ISOLATOR	NR	3	3
5-5	DB72-00693A	SPONGE-COMP BOTTOM	FELT+EVA	1	-
	DB72-00725A	SPONGE-COMP BOTTOM	FELT+EVA	-	1
6	DB98-13314A	ASS'Y COND	ASS'Y	1	-
	DB98-13308A	ASS'Y COND	ASS'Y	-	1
7	DB94-00163G	ASS'Y PARTITION	ASS'Y	1	1
8	DB72-00694A	CLOTH COMP SOUND	FELT+EVA	1	-
	DB72-00211A	CLOTH COMP SOUND	FELT+PVC SHEET	-	1
9	DB98-13316A	ASS'Y CONTROL OUT	ASS'Y	1	1
9-1	2501-001237	CAPACITOR COMP	35uF 450VAC	1	1
9-2	2301-001377	CAPACITOR MOTOR	1.2uF 450VAC	1	1
9-3	DB39-00885A	C/W CCH	YH396-03AV	1	1
9-4	DB39-00893A	WIRE HARNESS-CONNECT	UL1015 AWG18	1	1
9-5	DB39-00894A	WIRE HARNESS C/W COMP	UL1331 AWG14	1	1
9-6	DB39-00895A	WIRE HARNESS C/W CAPACITOR	UL1007 AWG18	1	1
9-7	DB39-00896A	WIRE HARNESS C/W FUSE	UL1007 AWG18	1	1
9-8	DB39-00897A	WIRE HARNESS C/W COMMUNICATION	UL1007 AWG22	1	1
9-9	DB39-20469A	C/W GROUND	UL1015/1P,AWG18	1	1
9-10	DB39-20595A	C/W MOTOR	AWG#16,AWM1015	1	1
9-11	DB61-01499A	CASE PCB	HIPS(V0)	1	1
9-12	DB93-01101B	ASS'Y PCB	ASS'Y	1	1
9-13	DB35-00015W	OLP	RAC12043-9622	1	1
9-14	DB67-60020A	OLP SPRING	STS304	1	1
10	DB99-00329A	ASS'Y VALVE 4WAY	ASS'Y	1	-
	DB99-00331A	ASS'Y VALVE 4WAY	ASS'Y	-	1
11	DB99-00328A	ASS'Y VALVE EXPANSION	ASS'Y	1	-
	DB99-00331A	ASS'Y VALVE EXPANSION	ASS'Y	-	1
12	G4A097JU1EP	R/COMPRESSOR	1Ph,50Hz,R410A,220-240V	1	-
	G8C124JU1EL	R/COMPRESSOR	1Ph,50Hz,R410A,220-240V	-	1
13	DB60-30028A	NUT-WASHER	HEX 2C MB ZPC	1	1
14	DB63-20002A	GASKET	EPDM	1	1
15	DB63-10165D	COVER TERMINAL	PBT	1	1
16	DB60-30018A	NUT-FLANGE	M5, SM20C	1	1
17	DB63-10443C	COVER E PARTS	ABS	1	1
18	DB90-00634D	ASS'Y CABINET SIDE	ASS'Y (BENDING)	1	1

6. Wiring Diagrams

6-1 Indoor Unit



Code No : DB98-12856A

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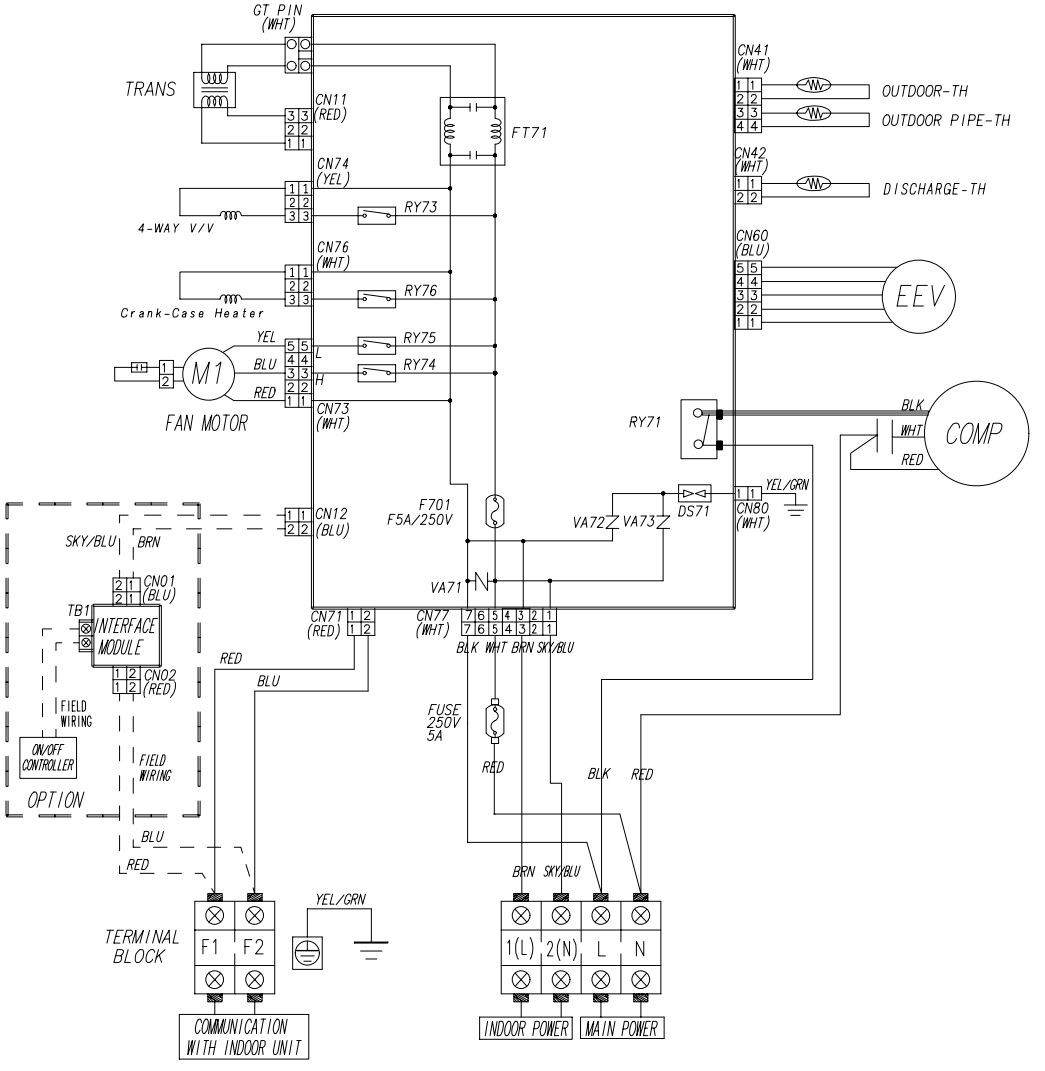

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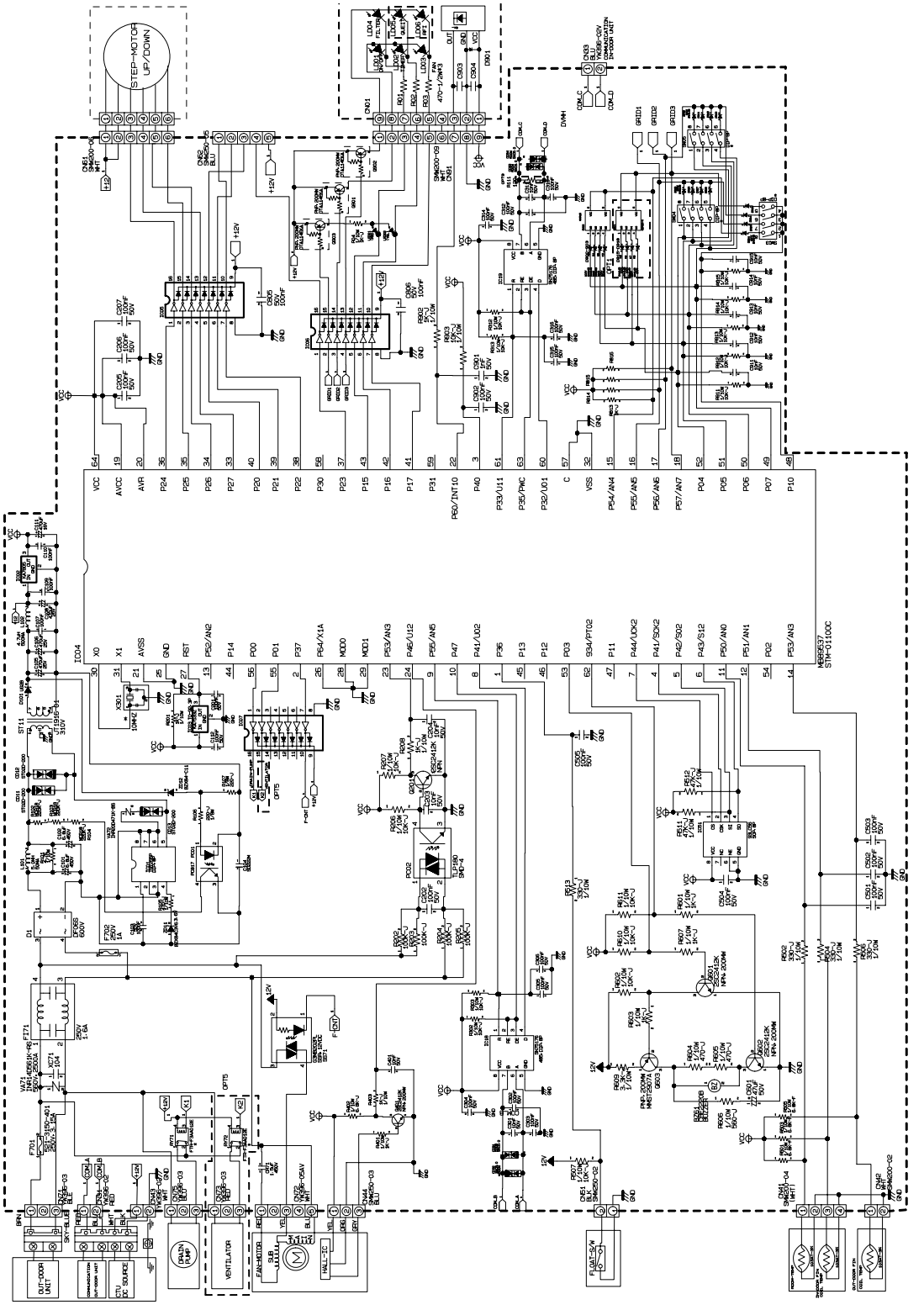
7. Schematic Diagrams

7-1 Indoor Unit



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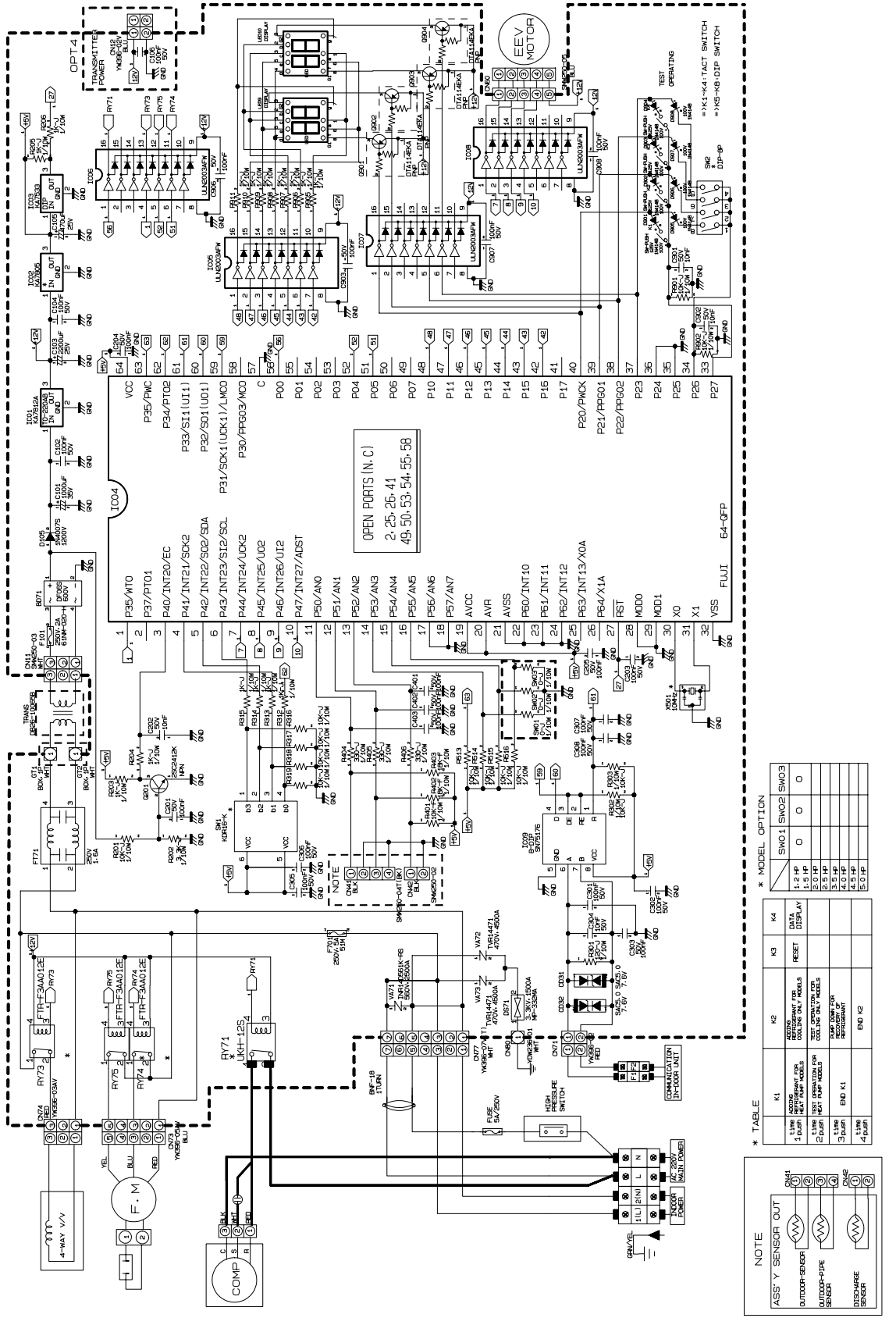

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UPDATE LOG SHEET

Application date	Page	Part#	Note(Cause & Solution)	S/Bulletin#

Use this page to keep any special servicing information. (Service Bulletin, etc.)
If only parts number changes, Just change parts number directly on parts list.
And if you need more information, please see the service website.

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